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## 4th Annual Report


ROM

Royal Ontario Museum  
July 1973/June 1974



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Cover: A quartz crystal from the northern Yukon, with prominent striations on the prism faces. The deep blue colour in the background indicates the presence of lazulite. The actual height of the crystal is about 3 millimetres. Photo-micrograph by Violet Anderson, Research Associate, Department of Mineralogy, Royal Ontario Museum.



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# 24th Annual Report

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Part of the display in the new Dinosaur Gallery, opened on March 11, 1974. ROM photograph by Bill Robertson.



# Report of the Board of Trustees of the Royal Ontario Museum

to the Lieutenant Governor in Council

July 1973/June 1974

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Virtually all our operating monies are received in an annual grant from the Province of Ontario, to whom we are deeply indebted. It is the Board's responsibility to determine the allocation of this annual operating grant which for 1974-1975 is \$5,215,000 (exclusive of grants for specific purposes). This is an increase of 7.75% compared with the 1973-1974 grant of \$4,840,000. In view of the recent upsurge in the rate of inflation, the Board decided that, as a matter of policy, the entire increase in the operating grant should be assigned to salaries, with effect from July 1, 1974. This will necessarily result in some retrenchment in other areas during the coming year. In addition, special plans are being implemented to bring academic salary scales more in line with other institutions of higher learning. It continues to be Board policy that the staff, who represent the life-blood of the institution, should receive adequate compensation.

Plans are continuing toward the expansion of the Museum's physical facilities. During the year, there have been extensive discussions with the Ministry of Colleges and Universities, discussions which involved members of the Board and members of the staff. Architects have been interviewed and the next step will be to complete a tactical study in order to identify the basic issues related to the objectives and future roles of the Museum, and the many factors affecting the design process. Next will be the development of a series of policy guidelines and objectives, which will collectively describe the future of the Museum so that the design process may proceed with adequate knowledge of future intentions.

In addition to the routine operations, exhibitions, and other activities of our nineteen curatorial departments, much of the year has been taken up with planning for the Exhibition of Archaeological Finds of the People's Republic of China (August 8, 1974 to November 16, 1974). In the area of policy, the Board of Trustees established the Chinese Exhibition Council of the ROM composed of some members of the Board and staff, with Mr. A. E. Ritchie, Under-Secretary of State for External Affairs, representing the Federal Government; Dr. J. Gordon Parr, Deputy Minister of Colleges and Universities, representing the Ontario Government; Dr. John Evans, representing the University of Toronto; the Honourable Kenneth R. Thomson; and Mr. Chester Ronning, a distinguished former diplomat. The Board authorized a budget for the Exhibition in excess of \$1 million, and further authorized the largest part of the capital funding for the Exhibition as a loan from the Museum's own resources. The Museum staff formed the Chinese Exhibition Committee, under the Chairmanship of Barbara Stephen, Associate Curator of the Far Eastern Department, to supervise general operations. Mr. Guy Pearse, who had successfully managed the Exhibition when it was shown in England, was engaged as Exhibition Manager.

The Board continues to benefit from the generosity of the Canada Council, the municipalities of Metropolitan Toronto, the National Museums Corporation through its programme for Canadian museums, and other donors. The Board also appreciates the contributions from the many school boards making use of ROM facilities despite reductions in their own operating funds.

As of June 30, 1974 six members of the Board of Trustees, Colonel D. B. Weldon of London, Mr. R. G. Meech, Mr. Clair Stewart, and Mrs. W. O. Randall, all of Toronto, Dr. William Monk of Bracebridge, and myself as Chairman, completed their term of office. New appointments to the Board are Mrs. G. R. Matte of Sudbury, Mr. David Quan and Mr. Ernest DuVernet of Toronto, and Mr. G. D. Wotherspoon as Chairman. Mrs. W. O. Randall has been reappointed for a further term, and Miss Ella Martin has been elected by the members of the Museum.

Thanks to many untiring volunteers and members of the staff, the Museum has gone from strength to strength. The Board is rightly proud of the pre-eminent position that has been achieved by the Museum, both in the Province of Ontario and in the museum community of the world, a position that has been achieved by the willing work of many hands. We are grateful to all who have been involved, volunteers and permanent staff alike.

It has been my privilege to have been a member of the Board since 1968, and Chairman for the past three years. During this time, I have been consistently impressed by the conscientious efforts of all my colleagues, both on the Board and among the staff. Despite individual preferences, they have always acted in a manner which, in their opinion, was in the best interests of the Museum. I am grateful for a most rewarding association and a truly enriching experience.

Noah Torno  
Chairman  
Board of Trustees

June 30, 1974

# Directors' Report

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Following their appointment in July 1973, the Director, Director (Administration), and Associate Director immediately concentrated their efforts on the many urgent priorities facing the institution. A fundamental one of great importance was the need to reestablish and maintain a constant communication with the staff through its departmental heads, and accordingly regular meetings were organized whereby the Director, Dr. Walter M. Tovell, chaired the curatorial heads' meetings and the Director (Administration), Maxwell Henderson, the operational heads' sessions meeting on a regular schedule. These and like steps can be said to have helped achieve our goal of improving all lines of communication throughout the Museum. As a consequence, our day-to-day operations have progressed smoothly and harmoniously leaving the Director and Associate Director, Dr. W. B. Scott, more time to deal with the broad questions of academic policy and future planning.

Included among our tasks over the past year has been organization of the Chinese Exhibition Committee responsible for the Exhibition of Archaeological Finds of the People's Republic of China which opened successfully at the Museum on August 8th. The teamwork brought to this organization by the Director, the Director (Administration), the Associate Curator of the Far Eastern Department, Barbara Stephen, and the Programme Secretary, Helen Downie, laid an excellent groundwork for this highly successful exhibition. This group was later joined by Mr. Guy Pearse as Exhibition Manager.

Staff changes during the year included the appointment of several new senior employees to fill vacancies resulting from resignations. We particularly welcome Denis Brown as Manager of our Public Relations, John Campsie as Supervisor of our Publications, Alan Harris as Assistant Controller—Finance and Accounts, and Kenneth Torrance as Assistant Controller and now Controller of the Museum.

Undoubtedly, the major problem of the year was the announced budget of the Museum for 1974–75. The budget previously submitted to the Ministry of Colleges and Universities through the Committee on University Affairs envisaged an increase of about 14 per cent to cover the operations, including salaries. In April 1974 we were advised that only 7¾ per cent would be allowed. This increase of the grant was not sufficient to allow the Museum to award committed, reasonable, and justifiable salary increases to staff and still provide the level of support for all existing Museum operations and programmes.

The Directors welcomed the formation during the year of a staff association conceived to embrace all non-supervisory and non-academic employees, other than security officers and service workers, who are unionized. Meetings were held between senior officers of the association and the Directors, thus providing yet another means of insuring communication between management and staff.

We would like to thank the Museum members who support the institution in its work and the many volunteers who do so much to carry on the programmes of promoting the Museum both within and without the building. A special tribute should also be paid to the ROM Board of Trustees, who sat during many hours of discussions at Board and Committee meetings. These hours of intense deliberations resulted in final approval of broad plans for the Museum expansion and the resolution of many staff problems that emerged throughout the year. The Board members serve without remuneration and we can only thank them for their dedication to and interest in the Museum.

We would be remiss if we did not extend a special note of appreciation to Mr. Noah Torno whose term as Chairman of the ROM Board of Trustees and Member of the Board was completed as of June 30, 1974. Mr. Torno rendered an invaluable service to the ROM and we were delighted that he could continue to serve as Chairman of the Chinese Exhibition Council of the Museum.

Across the pages that follow you will read of the programmes and accomplishments during the past year of the many departments that constitute the ROM.

Walter M. Tovell, Director  
A. Maxwell Henderson, Director (Administration)  
W. B. Scott, Associate Director

October 1, 1974



# Office of the Chief Archaeologist

A. D. Tushingham, Chief Archaeologist

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Faithful readers of the *Archaeological Newsletter* will already be aware of many of the ROM's archaeological activities. From the shores of James Bay to the depths of Lake Ontario, from the rain forests of Yucatan and Belize to the water-soaked gravels of Fengate, England, from the dry ruins of Peru to the depths of an Iranian *tepe*, our archaeologists have been pushing back the frontiers of our knowledge of man's past. What follows will be essentially a review, for the record, of what has been accomplished in the past year.

## Field Projects—Canada

In the summer of 1973 Dr. Peter Storck continued his search for Early Man sites in the Milton and Bronte Creek gaps in the Niagara escarpment and initiated a long-term project of surveying the (Pleistocene) Lake Algonquin beaches west of Newmarket. In the latter part of the summer of 1974 he plans to carry out intensive excavation at a site already located on another beach of the same lake in the vicinity of Alliston, Ontario. Human beings were very scarce in Ontario 10,000 years ago; moreover, they were nomadic. It is therefore by no means an easy task to find traces of their passage, but Dr. Storck's persistence and intelligent assessment of where to look are already paying dividends.

Dr. Walter Kenyon, at the other end of the chronological spectrum, is pursuing his study of the early explorers and fur-traders in the Canadian Arctic. He is now concentrating on the first voyage of Martin Frobisher, the 400th anniversary of which falls in 1976. If his hopes of finding archaeological evidence on Baffin Island are fulfilled, such evidence can be combined with photographs, documentary information, and memorabilia from England, the Orkneys, and Brittany, to create an exhibition to mark that important event. During the summer of 1973 Dr. Kenyon also returned to Charlton Island in James Bay to excavate the wintering place of John Nixon, built in 1681 when Nixon was Bayside governor of the Hudson's Bay Company.

During May 1974 excavations on East Sugar Island in Rice Lake were renewed. This project was initiated in 1972 by Dan Simpson, Chief of the Alderville Indian band, and by Mac Hall, Principal of the Roseneath School, when they asked Dr. Kenyon to establish a programme which would involve the students of the area, both Indian and non-Indian, and make them aware and proud of their past. The collaboration proved valuable in every way, and it is hardly surprising that it should be requested again. This time, while Dr. Kenyon remains adviser and tutelary director, the field work is in the capable hands of Dr. Richard B. Johnston of Trent University, who was in charge of the Museum's excavations at Serpent Mounds on Rice Lake in the years 1957-60.

William Finlayson carried out test excavations at the Crawford Lake site, an Iroquois village occupied in the late 14th century. Dr. J. McAndrews of the Museum's Geology Department is doing research on pollen deposits in this

lake, and the corn pollen from the fields worked by the Iroquois will enter into his studies. The Museum also supported the excavations of the Cherry Hill site in the County of Peel carried out by the Ontario Archaeological Society under the direction of Gary Crawford.

The very low water levels in Lake of the Woods in 1973 made possible the recording of petroglyphs which had, over the years, been under water. Mr. Dewdney reckons that two sites on Kennedy Island bear well over 100 glyphs, but they are badly weathered. He states, however, that "the total number of petroglyphs in the cluster of sites in the northwest portion of Lake of the Woods equals or exceeds that of any other known occurrence in the Shield Woodlands, including the Nett Lake glyphs in northern Minnesota and the 'Peterborough Petroglyphs'".

After the frustrations of the magnetometer search carried out in the summer of 1972 to find the wrecks of the armed schooners *Hamilton* and *Scourge*, lost in August 1813, Dr. Nelson's 1973 operations were relatively trouble-free. With the invaluable help of the staff of the Canada Centre for Inland Waters and the crew of CCGS *Porte Dauphine*, the grid was successfully navigated—without result. But, using side-scan sonar to the west of the prime target area, a feature was located on the bottom in 270 feet of water, and it is believed that this is one of the vessels sought. During the summer of 1974 a search for its mate will be made in the vicinity and, once identification is sure, steps will be taken to raise both ships.

Mr. David Newlands, who joined the staff of Canadiana a year ago, has been active in historic archaeology. His projects are included in Mr. Webster's report.

## Central and South America

Just before Christmas 1973 Dr. Kent C. Day completed his preliminary studies of the prehistory of the Lambayeque Valley in Northern Peru and was able in his six-month season there to carry out much of the mapping of a very large site called Pampa Grande. He plans to conduct an intensive archaeological investigation of this site and its environs over a 16-month period beginning in September 1974; the expedition will include specialists and experts from Canadian and American universities as well as Peruvian scholars and technicians.

In June 1974 Dr. Peter Harrison, field director of the ROM's project in the territory of Quintana Roo, Mexico, returned to Toronto after completing a careful survey which has taken longer than we expected. The results have been important for the new insights provided into the nature of the Maya economy in this area and will be published as soon as possible.

Dr. David M. Pendergast initiated, in the spring of 1974, his new project at Lamanai (Indian Church), a Maya site on an inland lagoon running parallel to the coast of Belize (formerly British Honduras). Dr. Stanely Loten, of Carleton University's School of Architecture, took five of his





Building a camp and beginning excavation at Lamanai, Belize.  
Dr. David Pendergast on the left.

students to assist in the planning of the very extensive site, while Dr. Pendergast's old crew of workmen were busy building a camp and mooring facilities for our two new boats (required because the only access to the site, other than by air, is by water). Already the site promises to fill several of the gaps in our knowledge of the history and culture of the lowland Maya.

### England and the Ancient World

During the spring and summer of 1973 Mr. Francis Pryor completed his third season of excavations at Fengate, near Peterborough, England. The archaeological evidence from this important site will complement and flesh out the display of our rich collections of Old World Prehistoric tools and weapons when the time comes for them to be exhibited once more.

Michael Gough, who had for years been engaged in the excavation and restoration of the ancient Byzantine monastic complex at Alahan in Turkey, carried out his final season at the site in the summer of 1973. Then, on October 25, at the very time when he was submitting plans for new work at a neighbouring site, he was struck down by a fatal stroke. His loss is keenly felt, but his records will not be lost to the scholarly world. His widow, Mary, who has for many years been his assistant in the field and in the study, was the logical person to supervise the publication of Alahan. She has therefore been appointed a Research Associate in the ROM and in the Pontifical Institute of Mediaeval Studies and will, it is hoped, be able to prepare a manuscript for publication over the next two years.

During the first four months of 1974, Dr. Matthew Hill of the University of Waterloo, with the assistance of Mr. Ronald Wright of the University of Calgary, conducted an archaeological survey of the Gambia on the west coast of Africa. At the time of writing, his report has not yet been submitted, but his test excavations at Gassang (which may be identified with the site of Cassan, reported at least as early as 1620) and the large stone circle at Wassau should throw light on two interesting periods in the history of the region.

The Godin project in central western Iran came to an end in the summer of 1973 after five biennial seasons. I shall, however, leave to Dr. T. Cuyler Young, Jr., the responsibility for reporting on the field activities of the West Asian Department.

In addition to its own excavations, the ROM has made financial contributions to the field work of other institutions. Among them we may list support of British excavations at Umm Dabaghiyah in Iraq directed by Mrs. Diana Kirkbride-Helbaek, at Tell Abu Hureyra in Syria directed by Mr. A. M. T. Moore, and at Buseirah in Jordan under Mrs. Crystal Bennett. We also provided some support for the University of Calgary's new project at Meroe in the Sudan under the direction of Mr. Peter L. Shinnie.

### Honours and Offices

The staff of the Museum engaged in field archaeology continue to carry curatorial responsibilities for collections and, where opportunity is offered, for exhibition. They hold cross-appointments, give public lectures, write popular and learned articles, serve on committees, and participate in the life of the city. In other words, the field archaeologist is not a person whose responsibilities divorce him from the everyday needs and demands of the Museum or of the larger Canadian society.

The staff of this Office again wishes to express their thanks to the Museum administration and Board for their constant support, and to the many private individuals, corporations, government bodies, and foundations whose interest and substantial assistance augment the Museum's resources and make the active field programme possible.



# Canadiana Department

D.B. Webster, Curator

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The Canadiana Department over the past year has experienced heavy pressures and tight scheduling, partly because of internal projects and educational commitments, but largely because of rapidly increasing public demands.

## Special Exhibitions

In the South Gallery, organized as usual by Mrs. Ignatieff and Mrs. Altodi, the following exhibitions have been shown: "Scenes in Canada: Cornelius Krieghoff", to September 19, 1973; "Art of the Illustrator", to December 9, 1973; "Winter Scenes in Early Canada", to January 27, 1974; the special National Gallery of Canada circulating exhibition, "Peoples' Art: Naive Art in Canada", during February 1974; and "Paul Kane's Canadian West", combined with a special display of Windsor Chairs organized by Mr. Dunning, to June 16, 1974. Careful advance organization ensures that complete turn-around from the closing of one exhibition to the opening of the next requires an average of only two or three days.

## Loans-out

For other exhibitions items have gone on loan to Ottawa, Vancouver, Kingston, Cobourg, Barrie, Owen Sound, Brampton, Washington, D.C., and Paris, France. Two complete packaged exhibitions, "Steam and Sail" and "Niagara Falls", were prepared by the Department for circulation by the Art Gallery of Ontario, and another, "Sporting Life in Early Canada", was circulated by the Museum for Festival Ontario. Henceforth, items loaned for exhibition must give credit to the Museum on the labels or, in the case of packaged circulating exhibitions circulated only by the Museum, in the title panels. Too often in the past we have loaned or circulated objects for exhibition to or through other agencies, receiving little or no acknowledgement; we are therefore tightening our loan criteria.

## Teaching and Lecturing

Our regular University of Toronto teaching commitments included the Canadiana portion (11 sessions) of the third-year Decorative Arts course (FAR 426), handled largely by Miss Holmes, as well as the Curator's graduate course (1445). The latter requires a substantial independent research project, and over the years the Canadiana library has acquired a number of manuscript papers (on which the students retain publication option). One past graduate paper was published in revised form as a small book in the spring of 1974.

The public lecturing schedule was particularly heavy and included a number of evening series (courses for University of Toronto Extension; Wilfrid Laurier University, Waterloo; and Sir Sandford Fleming College, Peterborough) as well as single lectures. Altogether, during the fall, winter, and spring, the Canadiana staff gave a total of 53 outside evening lectures throughout central Ontario.

## Gifts and Purchases

During the year gifts came from 18 individuals. The most important gift, received from Mrs. Esther Costello, was a collection of nearly 100 pieces of Quebec furniture and other objects, and a large ceramics collection. Among other very welcome accessions we received four excellent prints from Mr. John Langdon, an 18th-century Quebec buffet-bas from Mrs. C. R. Somerville, and a superb walnut chest of drawers made in the Niagara Peninsula, the gift of Mr. George J. V. Thomson. Mr. Charles P. deVolpi of Montreal, a long-standing friend of the Department, wrote us a cheque for \$1,000, to be applied without restriction to collection acquisitions, archaeology, or library purchases, as we saw fit. Such friends are greatly appreciated.

Purchases included 84 different acquisitions totalling nearly 300 separate objects. By far the most important, and expensive, single acquisition was a newly discovered and unrestored relief-carved 18th-century Quebec armoire, virtually identical with that illustrated as No. 29 in Palardy, *Early Furniture of French Canada*. Expenditures on acquisitions totalled \$32,122, of which \$20,000 came from the Purchase Trust and the balance from the Samuel Endowment. Our funds available for acquisitions, which have increased at a far slower rate than the prices of antiquities over the last several years, permit us to buy two or three prime pieces in a given year and to add generally to gaps in the collections. We cannot even be considered in the market, however, for major pictures, rare books, and other categories of particularly expensive antiquities.

Library acquisitions amounted to 225 volumes and periodical subscriptions, requiring a total expenditure of \$2,609. Book ordering has gradually become more selective and is now restricted merely to keeping up with newly published books on antiquities. As usual, the excess expenditure over our library allocation of \$900 came from the Samuel Trust.

## Archaeology

The archaeological programme has been carried on by Mr. David Newlands. In July and August 1973 he excavated the Morganville Pottery at Morganville, N.Y., as a joint venture with the Rochester Museum of Arts and Sciences; in the fall he undertook work at Fort York at the request of the Toronto Historical Board; and in May and June 1974 he excavated the David Burns Pottery at Clinton, Ontario, as a teaching project in conjunction with Wilfrid Laurier University. The excavation of craft-industrial sites, such as potteries and glassworks, and of early domestic sites is fundamental to the purposes of the Department, though far more sites require excavation than we can possibly undertake with the staff and funds at our disposal.

In July 1973 the Curator located and explored 23 new sites in Cape Breton Island, most of them of the French period and some so difficult of access as to require tracked vehicles for any excavation. The prime object of



this survey was an extremely early European settlement. Though the general area was located, the specific site has not yet firmly been established. This survey will continue.

### **Publishing and Other Projects**

The catalogue of our collection of Canadian watercolours and drawings has been brought to final form by Mrs. Allodi and will be published in two volumes early in October 1974. The Curator has been assembling a large general book on Canadian antiques, also due for October publication. The long-term projects of photographing the entire picture collection and of providing permanent mountings for our slides were continued through the summer by two student employees.

### **Procedures**

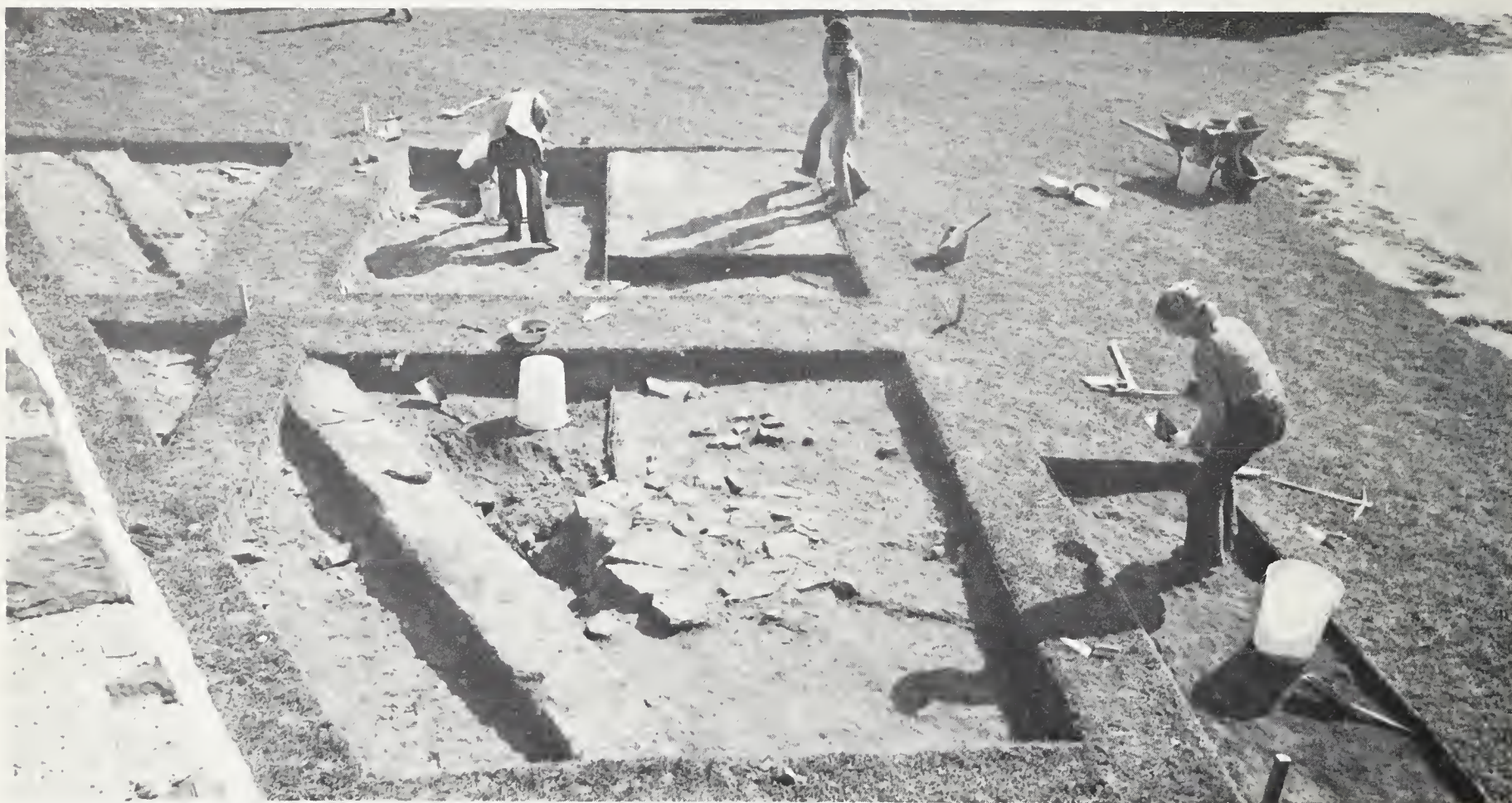
Activities during the past year, visible and otherwise, have taxed the Department's staff and facilities to the limit, with the result that in the spring of 1974 we commenced deliberate functional cutbacks. The demands imposed by internal projects, teaching, outside lecturing, exhibitions, committee-work, meetings, and the heavy routine workload have finally forced us to set limits to our response to requests from individual members of the public. Some staff members spend evenings and weekends in the office almost as a matter of routine; not a single staff member this year has travelled to any academic or museum conference or seminar (for lack of time, not money); and backlogs of work increase. The situation is such that under present conditions we cannot consider any functional increases or expansion.

In instituting cutbacks we have decided that the

Department must become less subject to interruption by the personal demands of private individuals and, in extending its activities around the province, must direct its main efforts at the greater audience by means of lectures, exhibitions, archaeological activities, and so on. While we regret the curtailment of our services to individuals, the Department's present resources of staff, space, and funds are not sufficient to enable it to carry out its essential Museum responsibilities and simultaneously to offer a full public-service function. The following measures have therefore been taken: (1) We have eliminated our public-directory-listed telephone number; general calls must henceforth come through the Museum switchboard. (2) We have installed a first-floor barrier gate to discourage casual drop-ins and enquiries; visitors will henceforth be admitted to the office areas only by prior appointment. (3) We have limited personal object-identification requests to Wednesday afternoons by prior appointment only, or at other times by special appointment. (4) We have restricted library usage to Museum staff and Department students, except by special arrangement. (5) We have decided that individual requests for slide or book loans must be refused and that requests for individual research advice, library guidance, special collection access, and other such services will have to be discouraged or declined, unless they are judged to be sufficiently important to justify the necessary expenditure of time.

### **Attendance**

Attendance figures, which rose markedly last year, rose still further to a total of 36,813 for the year June 1, 1973, to May 31, 1974. This represents an increase of 3,962 over last year.



Excavations at Fort York on the site of the Guard House, built in 1823 and destroyed about 1870.



# Conservation Department

B. Leech, Associate Curator-in-charge

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Although 1973 saw the establishment of the conservation/museology training centre, it was not until June that regular staff were appointed. The additional space will allow a greater variety of objects to be accepted for treatment, especially bulky objects such as furniture and large textiles, but the centre's main use will be for the teaching of conservation to museology students.

The full-time staff complement remained at ten, and although three staff members left during the year, the effective complement at times reached fifteen, including museology students, interns, summer students, technicians, and volunteers.

In textiles and paper conservation the size and scope of work that can be successfully treated continue to be severely limited by conditions. Moreover, since the planned renovations have not been carried out, the spectrograph remains unused and the appointment of a chemist is consequently held up. However, through the good offices of Dr. Mandarino and the Department of Mineralogy some work in this direction has continued, and we acknowledge with gratitude this cooperation.

Liaison with technicians of Art and Archaeology departments has continued, and formal arrangements for further training in appropriate conservation techniques will be brought into effect in 1974-75.

## Research

The completion of the technical study of the Chinese bronze weapons will have to wait until the spectrograph can be brought back into use. Meanwhile, Dr. U. Franklin has pursued the investigation of the weapons and other objects of Oriental origin. In addition, projects involving the Canadiana and West Asian departments have been successfully completed, and so we continue to be indebted to Dr. Franklin for help and advice.

Further cooperation with Dr. J. MacKay at Ryerson has resulted in the successful carbon-dating of a few more samples. Many private enquiries have also been directed to Dr. MacKay.

Sample macro- and micro-chemical analyses and identifications have been carried out, at times with facilities provided by the Department of Mineralogy. Progress in this direction has again been impeded by the lack of a chemist and by the pressure of work on the Curator.

## Galleries and Storage Areas

Piecemeal attempts to provide appropriate macro- and micro-climate for objects have emphasized the difficulties of this approach. The attempts must be made, yet if they are successful some areas of the building will be susceptible to more rapid deterioration. There is also the problem that if an object has been stabilized and then has to be moved to an unsuitable environment, further damage will ensue.

Widespread outbreaks of moth, beetle, and silverfish infestation throughout the Museum have often necessitated emergency fumigations. Again the problem arises partly from the age of the building and unsuitable conditions for the holding of collections. Rigorous housekeeping, fumigation of all susceptible incoming material, and the provision of a large fumigation chamber on the premises can do much to alleviate the situation. Other biological threats to the collections have been noted.

## Conservation Laboratories

Some 900 objects are recorded as having received treatment.

Work on the "carved pine statue of the Madonna by Jobin" from the Canadiana Department was a major project. This work was successfully completed by K. McMeekin, who subsequently transferred to the museums advisor office of the provincial government.

In anticipation of the rebuilding of Room 56 and in order to accommodate the washing of a large number of textiles, paper conservation was halted from November 6, 1973, to February 26, 1974. Even so, over 200 items were treated by D. Dudley, the bulk coming from the Canadiana and Far Eastern departments, with the remainder from European, Ethnology, West Asian, Archives, Invertebrate Palaeontology, Ichthyology, and Mammalogy.

One of the most interesting, difficult, and time-consuming paper projects was the conservation of an early Canadian drawing dated 1815, which had been glued to a wooden panel, painted, and then varnished in a misguided attempt to protect it against grime and dirt. After many trials the drawing was successfully removed from the panel, and the harmful varnish, grime, and dirt were removed. The drawing was then properly mounted on acid-free board.

## Other Activities

Senior members of the Department have given both public and professional lectures during the year. These have involved travel within North America.

All the staff were involved in the Conservation workshops and in the Conservation Conference '73 held at the ROM.

Requests and queries continue to increase, and we are at present handling between 80 and 100 a week.

Mrs. E. Phillimore and Mr. B. Leech were elected Fellows of the I.I.C.

The new museology/conservation centre has proved its worth, and requests for more work and more short courses on conservation have been generated. Workshops have been held for A.A.M., O.M.A., and S.A.A. (Society of American Archivists), and a number of individuals have spent time training with us.



# Egyptian Department

Nicholas B. Millet, Curator

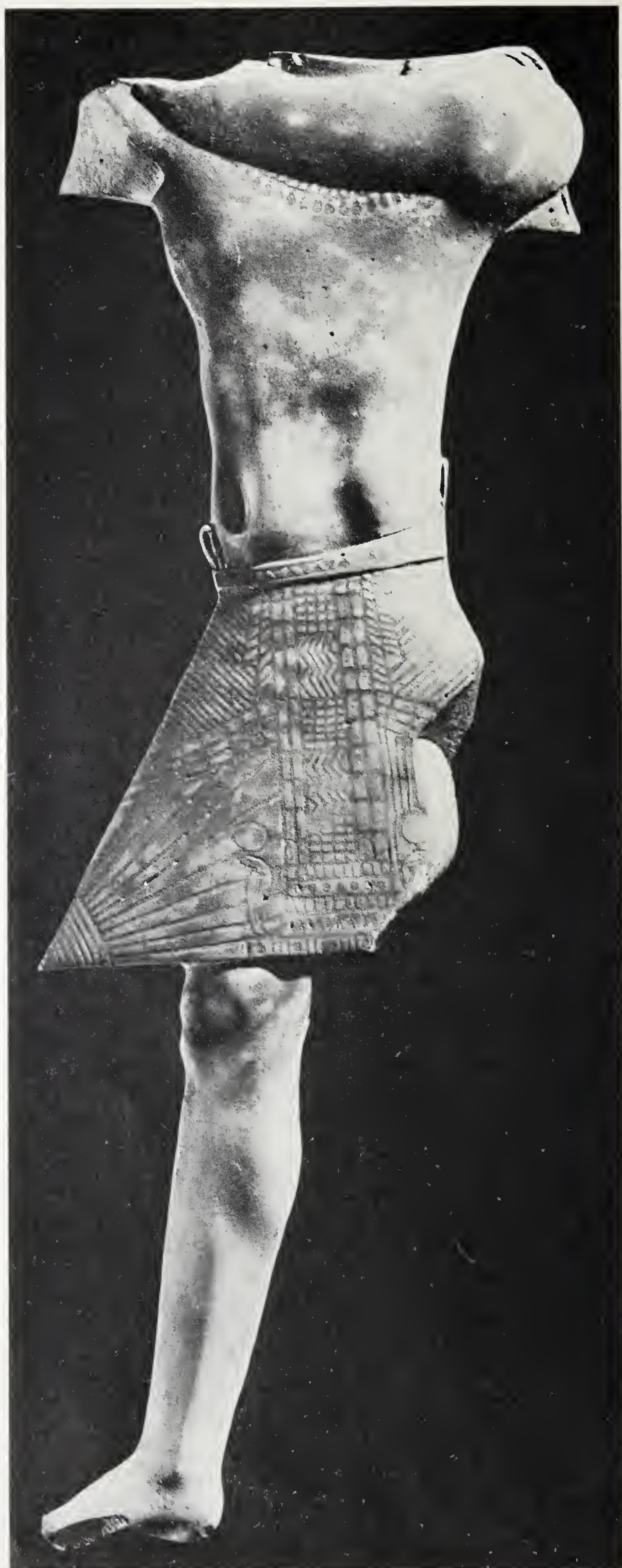
The Department's work in 1973-1974 centred largely on the massive accession of Nubian material received last year and the preparation for publication of another group of related material. Teaching and public lecturing continued, but both acquisition and gallery work were at a minimum. We had hoped to make progress this year with the improvement and bringing up to date of the galleries (complete reinstallation being out of the question at present), but the work load of Display General and broad Museum priorities made even this impossible.

## Acquisitions

In terms of the overall international art market, Egyptian antiquities were for a long time among the least expensive items. In the escalating markets of the last five years, however, this situation has changed, and the ROM has been unsuccessful in its bids at most of the auctions where such antiquities have been offered this year. The Department was fortunate in obtaining one object of outstanding interest, an incomplete light-blue faience inlay figure of an Egyptian pharaoh of the 4th century B.C. This was once part of a characteristically Egyptian item of temple furniture, the so-called *naostasis* or stand for the sacred bark containing the divine image. The Department has also been informed of the imminent arrival of a large study collection of potsherds from a site at Karnak, excavated by Professor Donald Redford of the University of Toronto for the Society for the Study of Egyptian Antiquities.

## Departmental Projects

The two major tasks of the year 1973-74 have been the same as in the previous year. One of them has been the preparation for publication of the results of earlier excavations for which the two curators are responsible. Last year we received the harvest of the excavations of the American Research Center in Egypt at Adda, near the Sudanese border. This collection of several thousand items is now undergoing the process of repair, conservation, proper storage, documentation, and study. The greater part of the task has been carried out by the Department's research assistant, Mr. Allyn Kelley, with the assistance of Miss Janet Lautenschlager, one of the Museology Programme students, and (during the summer) of Mr. Ronald Leprohon and Miss Annie Storr. Mr. Alan Hollett, the Department's Technician II, has also been involved, but most of Mr. Hollett's time has been spent working with Mr. Mills, making and finishing the drawing for part of the other major project, the publication of Mr. Mills' 12 years of excavations in Egypt and the Sudan. A third project, still in its early stages, is the examination and autopsy of an Egyptian mummy of the 12th century B.C. in cooperation with the Palaeopathology Association, the Academy of Medicine, and the Medical School of the University of Toronto. Preliminary studies are in train now and the actual autopsy will take place later in the summer of 1974.



Pale blue faience inlay representing a royal figure of 4th century B.C.



# Department of Ethnology

E.S. Rogers, Curator

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## Teaching and Lectures

The Department has always had close ties with the Department of Near Eastern Studies at the University of Toronto, and both curators hold cross-appointments in that department. Together they are responsible for the new graduate programme for Egyptian Archaeology, and both are involved in undergraduate teaching as well. Public and semi-public lecturing has increased this year, and the members of the curatorial staff have lectured to the local chapter of the Archaeological Institute of America, the Society for the Study of Egyptian Antiquities, the Windsor Art Gallery's docent group, and the Oriental Club of Toronto, not to mention smaller groups in the galleries. A highlight of this aspect of the Department's activities was a very successful lecture and study trip to Detroit in connection with the "Art of Amarna" exhibition on display there. The group numbered over 80 and consisted largely of Members and friends of the Museum.

## Research and Excavation

Both curators pursued special research projects. Dr. Millet continued his work on the ancient and still undeciphered Meroitic language of the Sudan and re-examined certain historical questions having to do with the royal succession and chronology of the Meroitic kingdom. Mr. Mills studied the archaeological evidence for the cultures of the Western Desert, the so-called "Libyan" area. Field work will not be feasible for the Egyptian Department until the backlog of publication is cleared away, but the ROM continues to give financial support to two outside excavations, that of the Egypt Exploration Society at Saqqara, and that of Professor Shinnie of the University of Calgary at the ancient capital of the Sudan, Meroe itself. From both of these operations we will receive a share of the archaeological finds.

## Other Activities

Mrs. Annette Gromow, Department Secretary, has spent most of her time on the departmental records and has added to her already heavy work load responsibility for the growing departmental library. Since the annual budget item for the purchase of Egyptological books is inadequate even to purchase current publications, the Departmental Trust Fund is called upon heavily for this purpose. Mr. Alan Hollett has been able to spend some of his time on gallery renovation in the Mummy Gallery and on general work on the storage collections. The slide collection has been rehoused in more modern storage units and recatalogued in a simpler system by our Member volunteer, Mrs. Audrey Kitching, and the work has been carried on through the summer by Miss Annie Storr. Another volunteer of long standing in the Department, Mrs. Loeta Tyree, has completed the new location files for the storage collection and is now engaged in bringing up to date the location file for the galleries.

During the year 1973-74 many things happened in the Department of Ethnology: a proposal to revamp the galleries devoted to the Indian and Eskimo cultures of Canada was approved; a major exhibition was installed; the operation of the Department's Museumobile was expanded into northern Ontario; nearly 500 items were added to the collections; considerable ethnographic research was undertaken; and several publications were seen through the press.

There have been a number of staff changes. Miss E. McLuhan left to continue graduate work at Columbia University and was replaced by Miss B. Hoffman. Miss Mary LoRé's former position has been filled by Miss M. Cozry, and Mr. Richard Daly has succeeded Miss A. Dempster. Mr. G. Bebamash took over the operation of the Museumobile from Mr. T. McCue, who now attends Teachers' College. Miss B. Reynolds retired at the end of June 1974. And Dr. G. Taylor assumed charge of the Urgent Ethnography Project at the National Museum of Man in Ottawa.

Only a few of the many activities of the staff can be noted in the following report. But there is one individual whose contribution must not be overlooked—the Department Secretary, who has to cope with the many and varied details that complicate the life of a department. Mrs. M. Parish has attended to all of these details diligently and with rare good cheer.

## Gifts, Purchases, Loans

Mrs. K. Wood continued in charge of the collections. Her responsibilities include cataloguing, loans, and the handling of photography requests and of public enquiries concerned with the collections and with the identification of objects. One hundred and ninety-two artifacts were received as gifts. Among them was a large collection of early material from the Southwest and Great Basin culture areas and many African items from Angola. Nearly 300 items were purchased, most of them coming from the Solomon Islands and a smaller number from East Africa. Twelve more paintings by contemporary Ojibwa artists were acquired. All these objects have now been processed into the collections. Over 100 items were brought in for examination. Twelve loans were made, items of Canadian Indian origin being most in demand, especially contemporary paintings.

## Exhibitions

One major exhibition, "Canadian Indian Art '74", was opened this year by the Honourable Jean Chrétien, Minister of Indian Affairs and Northern Development, whose generosity made the exhibition possible. The World Council of Crafts and the Ontario Council of Crafts took the initiative in promoting the exhibition. Mr. Tom Hill, on loan to the ROM from the Department of Indian Affairs, was responsible for assembling the arts and crafts items produced during the last two years and for supervising the installation of the show. In this task he had the dedicated support of Mr. J. Baer. Within a week of the opening



requests were being received from across North America to borrow the assembled items. This exhibition of some of the finest pieces of Indian art was the first occasion of its kind in Canada, and Mr. Hill is to be commended for his work in bringing it about. As part of the project Mr. Hill has been preparing a book on the contemporary arts and crafts of the Canadian Indians.

### Teaching and Lectures

During his visits to Newfoundland in the fall and winter for the purpose of archival research, Dr. Garth Taylor was Visiting Professor at Memorial University of Newfoundland, St. John's. His courses were "Arctic Studies" and "Ecology and Culture". Mr. B. Johnston continued to give lectures on Indian history and culture, often in the Ojibwa language, throughout Ontario at universities, Community and Teachers' Colleges, high schools, on Indian Reserves, and elsewhere. Dr. Rogers gave a course at McMaster University on the history of the Indians of Canada and the contemporary scene, and he also supervised one M.A. candidate. Mrs. Kay Wood assisted a number of students and scholars who visited the Department on various projects relating to the collections.

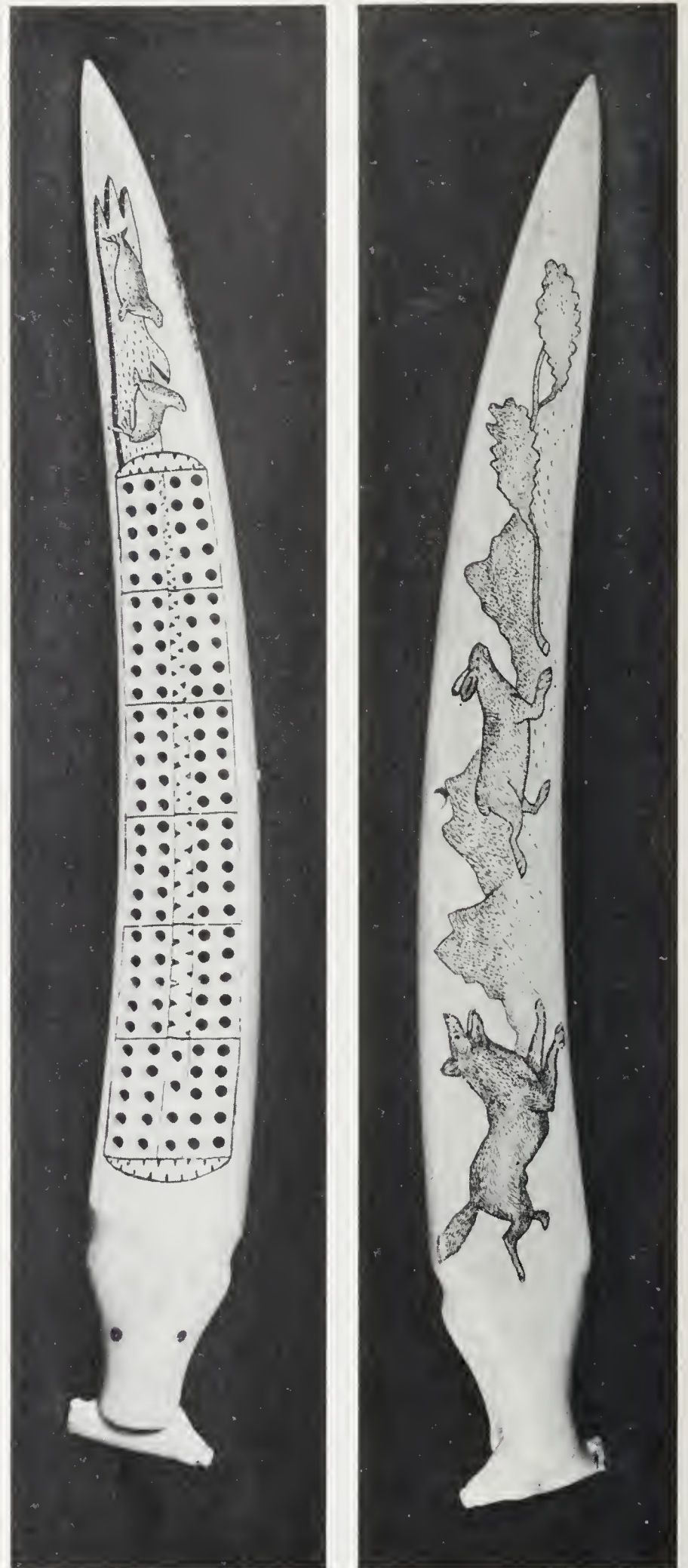
### Conferences, Committees, and Consultations

Dr. Rogers served on the Minister's Advisory Committee, Ministry of Natural Resources, and continued to act as a consultant to the Ministry in matters relating to the Native peoples, especially the Weagamow Ojibwa. At the XL International Congress of Anthropological and Ethnological Sciences held in Chicago he gave a joint paper with Dr. J. G. E. Smith and chaired a session on Circumpolar Peoples. Dr. Rogers also attended meetings of the American Association for the Advancement of Science held in San Francisco and of the Manitoulin Indian Studies Workshop on Indian Education, West Bay, Ontario, and sat on two Ph.D. examining committees at the University of Toronto.

Dr. Fuchs served a second year on the Executive Committee on Human Ecology and assumed the Vice-Secretariat of the First International Congress on Human Ecology.

### Museumobile

This year the Department's Museumobile was the responsibility of Mr. B. Johnston, who secured Mr. Bebamash as driver, arranged the scheduling, and provided overall supervision and liaison with the Native peoples. Mr. McCue returned as driver near the close of the year when Mr. Bebamash was hospitalized. The Museumobile toured central Ontario from North Bay to Sault Ste. Marie, visiting the many Indian communities in the area. Attendance totalled over 10,000, not counting repeats. Many Native people assisted in making the operation of the Museumobile successful. Unfortunately there is not space to name all those who gave so freely of their time, but Mrs. Mary Lou Radulovitch and Mrs. Jean Shawana deserve special thanks for all their endeavours.



Ivory cribbage board from the mouth of the Mackenzie River, c.1900. A recent acquisition of the Department of Ethnology.



In addition, Mr. B. Johnston and Mr. B. Bebamash undertook taping of elder Ojibwa recounting Ojibwa history and legends.

### Field Work and Research

During the winter Dr. Garth Taylor undertook archival research on Moravian diaries, trade lists, and Eskimo-German dictionaries located at St. John's, Newfoundland, to obtain information on the material culture of the Labrador Eskimos and on the changes that occurred after European contact. Archaeological material of the area was examined in cooperation with Drs. Robert McGhee and James Tuck in preparation for a volume *Labrador Eskimo Material Culture: a Study in Technological Change*. This work was supported by a grant from the Canada Council.

Dr. H. Fuchs, assisted by Mrs. S. Koerner, continued to work on the second edition of his *Bibliographica Basica de Anthropologia de Venezuela*.

Dr. Mary Black continued field work among the Round Lake Ojibwa and an analysis of data already collected in Minnesota and northern Ontario. The project is designed to examine Ojibwa belief systems and to determine whether this approach would lead to an integrated ethnography of the Ojibwa and would have wider application in obtaining an understanding of other societies. Dr. Black's work was sponsored by a grant from the National Science Foundation.

With the aid of a grant from the National Science Foundation Dr. Ted Steegmann initiated a study of cold adaptation among the Indians of the Severn Drainage Basin of northern Ontario. This study necessitates ethnographic investigation, a responsibility which Dr. Black has assumed as a member of the project for the community of Round Lake. Dr. Steegmann and a student also carried out investigations at Round Lake. Another student of Dr. Steegmann's has spent most of the past year working in the community of Fort Severn.

Dr. Charles Bishop pursued his research into the ethnohistory of the Northern Ojibwa and, with Dr. Rogers, continued the preparation of a manuscript covering the history of the Weagamow Ojibwa.

Dr. Z. Volavkova completed the first part of a two-year study of the Department's African collections, conducted field work in Africa, and collected items for the Department.

During the summer of 1973 Dr. Sid Mead undertook field work in the Solomon Islands, where he assembled a collection of items for the Department.

## European Department

### H. Hickl-Szabo, Curator

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All members of the Department have been active in research during the year. In addition to his work on glass and on European furniture, Mr. Hickl-Szabo collaborated with Charles Avery of the Victoria and Albert Museum and Corey Keeble on the catalogue for a forthcoming exhibition of Baroque bronzes. Mrs. Bacso's research on a large Sèvres porcelain vase, an inventory of 1727 of a large English house, and Japanese influence on 19th-century English ceramics has led to a lot of cataloguing. Mr. Cselenyi continued his work on Campanian Romanesque capitals and his studies of the Department's print collection and of the contribution of the R.S. Williams family to Canadian music. While working on the catalogue of bronzes, Mr. Keeble has done research on bronze sculpture and the iconography of Tiepolo drawings. He has also catalogued many guns. Mr. Kaellgren has worked on late English ceramics, glass, and silver and spent three weeks in England doing research on chinoiserie in English silver.

### Lectures

Members of the Department have been equally active as lecturers. Mr. Hickl-Szabo and Mrs. Bacso together gave 36 lectures in the University of Toronto's Fine Arts course 422. Mr. Hickl-Szabo also lectured several times to the Members' Committee, to visiting librarians, and, in collaboration with Mr. Keeble, to museology students. Mrs. Bacso gave a number of lectures under the auspices of the Extension and Education Departments and also gave an evening course on ceramics at George Brown College. Besides his lectures and seminars in the Museum for the Museology and Education Departments, Mr. Keeble gave lectures to a youth group and to an audience at the University of Winnipeg, and took part in a TV programme. Mr. Kaellgren taught an evening class for antique collectors and gave three lectures to the Youth Club.

### Gallery Work

Major gallery work, supervised by Mr. Hickl-Szabo, has been confined to Gallery 5 and the new Clock Gallery. Mr. Cselenyi improved the display in the former and made three additions to the musical instruments. Both he and Mrs. Bacso worked hard on the Clock Gallery. Unfortunately, the new cases proved unsafe for small objects like watches, and poor ventilation made the gallery unsuitable for the display of graphics prepared by Mr. Cselenyi. The icons, however, remain. Mrs. Bacso, Mr. Keeble, and Mr. Kaellgren all arranged a number of small displays and presentations of our recent acquisitions.

### Loans

Three small exhibits travelled to the Bracebridge Public Library and one to Brampton. All were arranged by Mr. Kaellgren. Mr. Cselenyi arranged two loans: one of prints to the Norman Mackenzie Art Gallery in Regina and one of musical instruments to Mackenzie House in Toronto. The Museum was the recipient of a loan of objets d'art and fine miniatures (two by Petitot), negotiated by Mr. Hickl-Szabo. A number of fine examples of Victorian decorative arts were loaned to the University Gallery, University of



Dionysus with cymbals. One of a bronze Bacchanal group of six by Eugène Désiré Piron, 1875-1928.

Minnesota, Minneapolis, for their exhibition "The Art and Mind of Victorian England" in the autumn of 1974. This loan was coordinated by Mrs. Bacso and Mr. Kaellgren.

### Travel and Other Activities

Mr. Hickl-Szabo arranged study trips to U.S. museums for Mr. Cselenyi and Mr. Keeble and to the U.K. for Mr. Kaellgren. Mr. Keeble delivered two Soldani wax reliefs to the Medici Exhibition in Detroit and availed himself of the opportunity to study the show. On request, Mr. Cselenyi

supervised the work of postgraduate students sent in by university professors. Mr. Kaellgren worked hard on the maintenance of displays and collections and helped with photos and research requested by other institutions. He is on the editorial committee of the *Ontario Museum Newsletter*, to which he is a regular contributor. Mr. Kaellgren purchased for the Department a number of small objects representative of 20th-century decorative arts. On the advice of Miss Campbell, a useful series of Hungarian coins was also purchased.

As part of the Department's public service programme, the staff identified 816 objects for members of the public.

Mrs. Jayne Needham, who had proved a very quick and able junior secretary, resigned in March. In her place we welcome Mrs. Marian Blake.

### Gifts and Purchases

Among the year's acquisitions are the following gifts, for which we are most grateful: two black basalt medallions and a taper lamp, from Mrs. Egerton Brown; 82 hand-coloured prints from an 18th-century book, from Mr. J. B. Vaughan; five 19th-century Judaic spice boxes from Central Europe, from Dr. Morton Shulman; a Swedish glass bowl, a bequest of Mrs. Jean C. Hayden; a 19th-century English violin, from Miss Betty Kingston; five drawings (two by Tiepolo), from Mr. Ian Ross; and a 17th-century English miniature, from Mr. R.B.F. Barr. Among our purchases were *Herbarium Medicinam*, a book printed in Prague in 1563, a Viennese porcelain clock of about 1750, six bronze dancing figures by E. Piron (20th-century French), and an Austrian miniature of about 1800.



# Far Eastern Department

Barbara Stephen, Associate Curator

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The energies of the Department's staff during the past year were devoted almost exclusively to preparations for "The Exhibition of Archaeological Finds of the People's Republic of China". In addition to doing research on materials in the exhibition and planning for its installation, members of the Department produced a series of articles on it and organized a number of temporary exhibitions, both in the ROM and outside, to coincide with it. Plans were made to convert one of the study rooms into temporary office space for the Chinese working group travelling with the exhibition. Final touches were put to several gallery projects, but pressure of time made it impossible to complete the planned renovation of the gallery housing Sung Dynasty ceramics.

## Exhibitions

An exhibition, "Indian Miniature Painting from the Collection of Edwin Binney 3rd", was held unexpectedly in the Far Eastern galleries from April 8 to May 6. Delay in construction work in Exhibition Hall had forced a sudden relocation, but quick action by Display General, the carpenters, and the preparators transformed two galleries within a few days. While the resulting display was more compressed than planned, appreciation of the miniatures seemed undiminished. Dr. Golombek, West Asian Department, kindly offered advice and assistance in training the Touring Committee members who were so helpful in introducing the exhibition to visitors. Dr. T. H. Heinrich was invited to open the exhibition.

The Department lent six objects to a major exhibition, "Unearthing China's Past", at the Museum of Fine Arts, Boston, between November and February. The exhibition was designed to present parallels in Western collections to objects recently unearthed in China.

A loan of a Chinese mirror and a Tibetan painting was made to the "Magic Circle" exhibition organized by the Burnaby Art Gallery, Burnaby, B.C.

Mr. David Pepper, Art Department, arranged a loan of 16 pieces of Japanese metalwork to a Tōken Kai symposium on Japanese swords, armour, and related metal work, held near Los Angeles in June. Mr. Pepper was invited to act as Programme Chairman for the Sword Division.

## Research, Teaching, and Lectures

At the beginning of September Dr. Shih assumed a one-year appointment as Chairman, Board of Studies in Fine Arts, and Visiting Professor at the Institute of Chinese Studies of The Chinese University of Hong Kong. En route to Hong Kong she lectured to the Far Eastern Art Council of the Los Angeles County Museum of Art on "Mirrors of the Past: Chinese Tomb Figures". In February she spoke to the Hong Kong Archaeological Society on "New Archaeology in China", and in March she addressed the Hong Kong Branch of the Royal Asiatic Society on "The Relation between Chinese Tomb Figures and Monumental Sculpture".

Mrs. Stephen and Dr. Dohrenwend continued cross-appointments in the Department of East Asian Studies, University of Toronto. Each taught half of a graduate seminar on "Bronze Age Archaeology of Eastern Asia" and gave lectures in the undergraduate course "Visual and Performing Arts of Asia".

The Department offered an Extension course during the winter on "Archaeology in New China", during which recent discoveries were discussed. The course was designed to provide background for the coming Chinese Exhibition. Mrs. Stephen and Mrs. Proctor each spoke on three evenings and Dr. Dohrenwend on two.

Mrs. Stephen spoke to the Niagara Peninsula Society of the Archaeological Institute of America at Brock University on "Recent Archaeological Discoveries in China".

Three lecture series were sponsored during the year by the Bishop White Committee. A new series, "Introduction to Chinese History", was given during the fall. Invited lecturers were Professor Tuzo Wilson (Principal of Erindale College), Professor J. L. Cranmer-Byng (Department of History, University of Toronto), Professor William Saywell (Chairman, Department of East Asian Studies, University of Toronto), and Professors Wayne Schlepp and M. Dolezelova (Department of East Asian Studies). Mrs. Stephen also lectured in this series. The other two series were given in the Far Eastern galleries by members of the Touring Committee of the Members' Committee and by Mrs. Stone (Chairman of the Bishop White Committee).

Dr. Dohrenwend was invited to visit China with a group of United States citizens co-sponsored by the United States National Academy of Sciences and the Chinese Scientific and Cultural Association. Members of the group took many slides of archaeological sites and of museum collections that are being exchanged, and these will prove most helpful in teaching.

Mrs. Stephen, Dr. Dohrenwend, and Mrs. Proctor lectured to various organizations during the year. Mrs. Stephen chaired a meeting of the Canadian Society of Asian Studies at the University of Toronto in June, and she, Dr. Dohrenwend, and John Vollmer (Textiles Department) all presented papers.

Mr. Hsü continued research on the oracle bones, working on examples in the Bishop White collection.

While time available for research in this busy year was limited, members of the Department not working intensively on the coming Chinese Exhibition continued their studies. Mrs. Nora Ling-yün Shih Liu joined the Department for the year to study and catalogue Chinese painting. Mr. Yutaka Mino rejoined the Department for the summer to continue work on Chinese ceramics, and Mr. Ralph Lake, a graduate of the East Asian Studies





Detail from Chinese landscape scroll, Nanking School, 17th century.

Department, helped during the summer under a programme of the Board of Education. Mr. Wylie received a scholarship from the Ministry of Education of the Japanese Government to study for two years in Japan and left in April. Mr. Tom Quirk joined the Department to continue Mr. Wylie's work on the Japanese collections, particularly the woodblock prints.

### **Far Eastern Library**

During the year the library accessioned 631 volumes, 140 pamphlets, and 173 periodicals, while 30 books were withdrawn. Holdings are now 14,851 volumes.

At present the library has one librarian, one part-time clerical helper, and a volunteer calligrapher. It also receives bibliographical assistance in Chinese and Japanese from two scholars on the staff of the Department, without whose help it would be very difficult to function.

### **Gifts and Purchases**

The collections were strengthened during the year by a number of new acquisitions. The Department received a wide variety of objects as gifts, to the donors of which it is grateful; their interest and support were particularly appreciated in this extremely busy year.



# Greek and Roman Department

Neda Leipen, Curator

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The research and teaching potential of the large Greek and Roman collections was put to intensive use by the curatorial staff, resulting in publications, papers, lectures, and courses. Concurrently, much of the gallery display was changed and improved, and a large part of the study material, particularly the large numismatic collection, was researched and recatalogued.

## Galleries, Collections, Research

Mrs. Easson finished the long job of cataloguing the entire collection of Roman Republican gold, silver, and bronze coins (540 pieces). In collaboration with Research Associate Dr. J. S. Wilkinson, she also worked on the large collection of Roman Imperial coinage and thus laid the groundwork for a planned new display showing the chronology and development of Roman coinage from Republican to Byzantine. Mrs. Easson also continued work in her other field of interest, the Romano-British collection, for which two new wallcase displays were installed, one showing decorative arts from the Western Roman provinces of Britain, Gaul, and Germania, the other pottery and glass from the same areas before and after the Roman occupation.

Working on the collections John Hayes studied and recatalogued miscellaneous Greek, Etruscan, and Cypriote pottery and continued work on the Greek and Roman lamp collection with a view to future publication. He prepared a preliminary draft of the text for a fascicule of *Corpus Vasorum Antiquorum* (the international corpus of Greek vases). It is envisaged that this first ROM contribution to CVA will be followed by another two or three volumes.

Mrs. Leipen continued her research on the collections of Greek and Roman sculpture for a planned *catalogue raisonné*. She was also responsible for a number of changes, improvements, and new displays in the galleries. In the Athens Gallery, which requires constant maintenance because of wear-and-tear by the large number of visiting classes, the water-clock exhibit was completely overhauled. Some Roman sculpture and a collection of Roman military equipment received new display installations.

During the year we again enjoyed the regular assistance of Dr. Wilkinson, who worked on the large collection of Roman Imperial coinage. We also had able part-time help from Miss Cathy Twiss, a postgraduate student in classics, and Mr. L. Bregman, a student at Queen's University. The latter worked under Mrs. Easson's supervision on the numismatic collections.

The Members' Touring Committee added another tour to their programme for the Greek and Roman galleries: with the assistance of the curatorial staff to supplement their own keen interest and diligent study, they have devised an informative and very lively tour of the Etruscan Gallery.

We are indebted to Mrs. R. J. Boxer of the Members' Committee for her help in filing and indexing off-prints and other papers and in mounting photographs.

Our special recognition goes to Mrs. Jane McCormick, the Department Secretary, who, as the only non-curatorial member of the Department and with no other technical help, coped with more than her share of work, and tackled it all with her usual efficiency, patience, and good humour.

## Field Work, Travel, Research Abroad

On leave from June to August 1973 John Hayes worked on a number of sites. In Cyprus he studied the finds of Hellenistic and Roman pottery from the Cyprus Department of Antiquities' excavations of the House of Dionysus at Nea Paphos. He continued his work on Late Roman/Early Byzantine pottery finds from Saraçhane (St. Polyeuktos) in Istanbul, a long-term excavation project sponsored by the Dumbarton Oaks, Washington, D.C., and one with which he has been associated for many seasons. He paid a brief visit to the excavations at Stobi, Yugoslavia, and in January he attended the Hadrian's Wall Conference in Newcastle-upon-Tyne, England.

Mrs. Leipen spent two busy weeks in Athens where she has been engaged in the study of the "small finds" in bronze (about 1,500 pieces) from the American School of Classical Studies' excavations in the Agora, for one of their Excavation Reports. She also attended the Xth International Congress of Classical Archaeology in Ankara and Izmir in September (for her report see Publications). She visited the new installations of classical art in the British Museum, and studied the Greek and Roman collections, particularly sculpture, in the Ashmolean Museum, Oxford, and in the University Museum, Oslo.

Mrs. Easson attended the annual meetings of the Archaeological Institute of America in St. Louis, Mo., in December.

With the Curator's support and recommendation Miss Twiss was awarded a one-month study trip to Tunisia within the exchange programme sponsored by the international Agence de Co-opération Culturelle et Technique, during which she visited and studied Roman and Carthaginian sites and collections.

Research Associate Dr. J. Shaw, in cooperation with the ROM and the University of Toronto, was able to raise the initial funds for a planned excavation project at Komos, a Bronze Age harbour town in southern Crete. It is estimated that this major project will continue for eight years and, if negotiations with the proper authorities in Greece are successful, excavation will begin in 1975.

Dr. Wilkinson represented the Museum at the International Congress of Numismatists in New York and Washington in September 1973.





Marble Head of a Girl. School of Praxiteles, Greek, Attica, 320-300 B.C.

### Teaching, Lectures, Papers

The year was a particularly busy one for the Curator. She was invited by the Department of Classical Studies, University of Ottawa, to give a series of graduate seminars on "Problems in Greek Sculpture", and by the Ecole des Gradués, Université Laval, Québec, to act as examiner of a Ph.D. thesis and to serve on the jury for the Orals. Holding a joint appointment as Associate Professor in the Fine Arts Department of the University of Toronto, she taught a course on "Greek Terracottas" (Class FA 320), and with her two full-time colleagues in the Department, Mrs. Easson and Dr. Hayes, she gave a University of Toronto Extension course, "Creations in Clay". She was also invited to present the following lectures: to four local societies (Detroit, Toledo, Columbus, Kent) of the Archaeological Institute of America on "Athena Parthenos—Reconstructing a Vanished Statue", a topic related to her published monograph (ROM 1971); to Members of the Windsor Art Gallery on "The Greek and Roman Collections in the ROM"; to the Symposium on Canadian Archaeology Abroad, University of Calgary, on "Recent

Greek Accessions to the ROM"; to the Department of Classics, Sir Wilfrid Laurier University, Waterloo, on "A Rare Roman Terracotta Portrait in the ROM"; to the Toronto Classics Club on "Greek Terracottas"; and to the Classical Association of Canada on "The Athens Gallery as a Teaching Instrument". On this last occasion the Department hosted a gallery reception for the Learned Societies delegates.

John Hayes read a paper on "Investigations into the Roman Pottery of Cyprus: the Evidence of the House of Dionysus at Paphos" at the Symposium on Canadian Archaeology Abroad, University of Calgary.

During the year a number of university classes from Toronto and elsewhere visited the galleries, and a number of these were conducted by the staff of the Department. Among lectures given to these classes were two by Mrs. Easson to classics students from Sir Wilfrid Laurier University: "Greek and Roman Mythology on Ancient Coinages" and "The Purpose and Depictions of Mythology on Greek Vases and on Greek and Roman Coins".



# Philatelic Activities

Douglas Patrick, Honorary Curator

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In the last decade more than \$1 million worth of postage stamps have been lent for exhibition at the ROM. Two separate displays of 48 pages each, Cape of Good Hope and Tristan da Cunha, were insured for \$50,000 each, or more than \$1,000 a page. These postage stamp displays have been shown at no expense to the Museum apart from the original investment in eight frames with expensive safety glass. Philately has no budget, but gifts have enhanced the ROM collections of stamps.

## Acquisitions

Mrs. J. P. Barwick of Ottawa donated a large collection of stamps that her brother, Douglas Duncan, had formed. This gift consisted of thousands of stamps of the world in albums, small books, boxes, and envelopes. It includes two big albums in the Scott's types, one dated 1840-1900 and the other 1901-12, both filled with stamps too numerous to count. The best single-country lots were French stamps, mainly of the 20th century, mounted on 78 pages. This is a beautiful collection with many scarce blocks, full panes, and sheets rarely found in such large units. Michael Madesker of Toronto, who directs junior activities for the Royal Philatelic Society, Canada, accepted the remainder stamps of the world for free distribution to junior collectors in Canada. Every sound stamp filled a useful purpose.

William Butler, a Toronto mail-order stamp dealer, left a million or more stamps to the Museum, but none could be used to advantage, and therefore Mr. Harvey sold them for funds to repair the present cases.

## Publications

Douglas Patrick's *The Musson Stamp Dictionary* was published simultaneously in Great Britain, the United States and Canada. Also during 1973-74 a total of 286 stamp columns appeared in six Canadian papers.

# Textile Department

Katharine B. Brett, Curator

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Exhibitions, research, and the care and reorganization of the collections have been the main concerns of the Textile Department this year. There have also been increasing requests for assistance from scholars, students, and others working in textile and costume fields. Dorothy K. Burnham was appointed Associate Curator in September and took over areas in the collections formerly in the care of Mr. Burnham.

## Special Exhibitions

The large exhibition, "Cut My Cote . . .", which opened in June 1973, attracted much attention throughout the summer and there was particular interest in the possibility of a travelling exhibition. The booklet of the same title, written by Dorothy K. Burnham to accompany the show, went into a third printing.

Four exhibitions were shown in the Department's special exhibition gallery. "Nineteenth-Century Lace", arranged by Mrs. Brett, was the result of the numerous enquiries about lace which come in every year. A display of our flat woven rugs from West Asia and the Balkans, put on by Dr. Gervers, was of particular interest to rug collectors. Dr. Gervers gave two gallery talks, one of them to the Society of Oriental Carpets Inc.

The exhibition of recent accessions put on by the Department each year is always an important event. All the curatorial staff participated in "Harvest '73". Only a few of the gifts and purchases can be shown in these exhibitions, and this year was no exception.

"Made in Canada", organized by Mrs. Burnham, occupied three galleries and included 19th- and early 20th-century weaving, embroidery, knitting, lace, and textile equipment. It was planned to coincide with the World Craft Council meetings held in Toronto in 1974. There has been much interest in Canadian textiles this year, and *Keep Me Warm One Night*, by Harold B. and Dorothy K. Burnham, has gone into a second printing.

These special exhibitions, designed to display Museum material only, are among the most important activities of the Department since they provide an opportunity for visitors to see collections which, because of limited gallery space, can only be shown on such occasions. Throughout the year Mr. Vollmer rotated textile and costume exhibits in the Far Eastern textile galleries and other areas, and Mrs. Brett rotated displays in the Costume Gallery. On the completion of new cases for the royal dresses at the entrance to the textile galleries, the dresses came on display again, and the small gallery which they formerly occupied is now devoted to regional costume and textiles with Dr. Gervers in charge. The first display arranged by Dr. Gervers was "Costumes from the Balkans". She also reorganized the display of Coptic textiles.

A reception was held in the galleries by the Fashion Group Inc. of Toronto to view the costume items purchased with



donations given in memory of Miss Gwen Cowley by the Fashion Group and by her friends. Costumes purchased with other generous Fashion Group donations were also on display.

### Care of the Collections

With the addition of new storage cabinets the entire staff, together with some volunteer help, became involved in the complicated task of reorganizing the reserve collections to make the most of extremely limited storage space. Much of this work involved collections in Mrs. Burnham's care. Meanwhile, Mrs. Holford, almost entirely on a volunteer basis, did considerable reorganization of costume storage. The importance of undertakings of this kind cannot be too highly stressed. The crowded conditions also make it essential to keep storage records up to date. To add to the problem, there is the continual flow of new acquisitions, of which there were approximately 625 this year.

Mrs. Cselenyi's main tasks were to keep the finding lists up to date, stitch accession numbers on new acquisitions, mount photographs, and prepare material for exhibitions. Her ever-increasing knowledge of the whereabouts of reserve material makes her an invaluable member of the staff. Mrs. Zuppinger undertook, with great skill and care, a major and time-consuming sewing job to conserve one of the fragile royal dresses. She then went systematically through the Chinese collection and attended to pieces in need of repair in preparation for a proposed exhibition. Mrs. Eva Stahli Burnham, a trained conservator, moved to the Conservation Department on April 1. While in the Textile Department she conserved numerous fragile pieces and worked with Mark Burnham on large pieces requiring two pairs of hands.

### Research

Mrs. Brett received a Canada Council grant for research on design sources of the Museum's large collection of French 18th-century woodblock printed cottons. She spent September and October in France, mostly in Paris, where the largest collections of related documents are housed.

Mrs. Burnham attended the biennial meetings of the Centre International d'Etude des Textiles Anciens at Riggisberg, Switzerland. Her main reason for going was to discuss the work the Centre is doing on an international vocabulary, a project Mr. Burnham was deeply involved in. She had preliminary talks in Iceland, Norway, and Bern, and at the Riggisberg meetings she was appointed editor of the English version to fill the vacancy left by Mr. Burnham's death. This appointment meant much research for her throughout the year. She also went to Ottawa to study Indian and French-Canadian finger-woven sashes in preparation for a publication on which she worked with Mr. Burnham before his death.

Dr. Gervers received a Canada Council grant to study traditional felt-making in Anatolia and Iran. In addition to



Silk dress brocaded with silver threads, English, mid-18th century. A gift of the Fashion Group Inc. of Toronto and friends, in memory of Miss Gwen Cowley.

Dr. Gervers' findings her trip yielded several important felt garments for the Museum's collection. A successful search followed for felt articles in the Musée de l'Homme, Paris, and in museums in Bern and Basel, Switzerland. Dr. Gervers also did further research on Eastern European peasant costumes in preparation for the publication of our large Romanian and Hungarian collections.

Mr. Vollmer's researches centred on facets of East-West trade during the 16th and 17th centuries. "Macao Silks" bearing the Habsburg crest and probably made for the Spanish market, and Iberian influences on the regional costumes of Japan and the Philippines, were two aspects important to our collections which he delved into. He visited museums in the Maritime provinces, Manitoba, and Alberta, partly to record Far Eastern material and partly to become familiar with museums in Canada.

### Acquisitions

The Department wishes to acknowledge the generous support of the many donors who contributed to the growth of the collections during the year. About 625 items were received, most of them gifts. Two large groups only can be noted here: Ontario, Quebec, and New Brunswick textiles and a rare blanket from Scotland were acquired with



generous donations given in memory of Harold B. Burnham by his friends; and following the death of Miss Gwen Cowley, Chairman of the Fashion Group Inc. of Toronto, the Fashion Group and her friends raised a large memorial fund for the purchase of costume for the Museum. A number of important items were thereby acquired.

### **Lectures and Conferences**

A course of six lectures, "Looking at Textiles", illustrated with material from the galleries, was given in conjunction with the University of Toronto. Other activities by the curatorial staff included the usual lectures to students of the University of Toronto and the Ryerson Polytechnical Institute, lectures in their own particular fields both at home and abroad, and participation in TV programmes.

Mrs. Brett and Dr. Gervers accompanied Mrs. Burnham to the biennial meetings of the Centre International de l'Etude des Textiles Anciens at Riggisberg, Switzerland, where Dr. Gervers gave a paper and was appointed to the council to fill the gap left by the death of Mr. Burnham. She also attended other conferences during the year.

### **Clerical**

Mrs. Ilona Andrews, Department Secretary, has been an invaluable support. Her efficiency in handling secretarial and accounting tasks has made for smooth running in this area.

## **West Asian Department**

### **T. Cuyler Young, Jr., Curator**

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This has been a particularly good year for the West Asian Department. We seem to have accomplished a fair amount on almost all fronts, and looking back I cannot see any crisis which interrupted the smooth running of our affairs.

### **The Collections**

Notable purchases this year include two mosaic faience panels from 15th-century Iran and a large carved wood cenotaph from 11th-century Egypt. As has been our policy for some time, we made no purchases in the pre-Islamic field because the market contains almost no objects in our price range, which are not either of dubious quality or illegally excavated and clandestinely exported. Through our support of legal excavations by other institutions and our own archaeological programmes, however, we have made significant additions to the collections. Documented materials from the sites of Dihban and Buseira filled in some bothersome gaps in our otherwise fairly comprehensive Palestine collection, and the 1973 field season at Godin Tepe and Seh Gabi added several hundred specimens and objects to the Department's holdings. Our field work in Iran also yielded a major collection of palaeozoological and palaeobotanical materials for study purposes, as well as a good modern faunal collection for the Mammalogy Department. In addition, we gathered plant material in the field for the Botany Department. It is characteristic of archaeological research today that it leads to the growth of collections in several departments.

No fewer than eight undergraduate and graduate students were employed part time this year to work on the collections under curatorial supervision. Their activities ranged from research on prehistoric animal bones to the artistic analysis of painted pottery motifs. We also entered into a joint programme of research with Dr. Ursula Franklin of the Department of Chemical Engineering at the University of Toronto involving the analysis of ceramics and glazes from our collection.

### **Gallery Work**

A new display entitled "Neighbours and Invaders of Palestine on the Eve of Islam" was mounted in the Palestine Gallery. This brings before the public for the first time several objects in the collection from the Parthian and Sasanian periods (3rd century B.C. to 6th century A.D.). A temporary exhibition was mounted at the Baycrest Centre for Geriatric Care. As part of the Museology Programme, a travelling exhibition on stratification in archaeology was prepared and is ready to go on the road. Otherwise our efforts were confined to normal gallery maintenance and continued preparations for future displays.

### **Field Work and Research**

Four members of the Department, Young, Levine, Breede, and Mitchell, were in Iran for the last field season of the ROM's Godin Project from May to September. Dr. Keall conducted preliminary field explorations of recently



discovered 9th-century A.D. pottery kilns and copper mines in the Sultanate of Oman, travelled to visit other archaeological sites in the Persian Gulf area, and made an exploratory trip to Qal'eh-i Yazdigird in western Iran, where the Department hopes soon to undertake excavations under Dr. Keall's direction. Dr. Golombek made a two-week study trip to Jerusalem and Isfahan in connection with her research on mediaeval Islamic cities.

Dr. Golombek is deeply involved in a textual and cartographic study of early urban development in Iran and spent much time working on the Kufic inscriptions on the *tiraz* textile fragments in the collections of the Textile Department. Dr. Keall proceeds with his major publication on Parthian Nippur, with preparations for the forthcoming excavations at Qal'eh-i Yazdigird, and with research on Parthian politics of the first two centuries A.D. Dr. Levine's main research concern has been and is, of course, the final publication of the Department's excavations at Seh Gabi. He has also worked this year on an analysis of urban dynamics in early historic Mesopotamia and on plans for an archaeological surface survey of the Mahi Dasht valley in Iran scheduled for 1975. Dr. Young did not do much research this year but did manage to do some work on Period II (8th—6th centuries B.C.) architecture from Godin

Tepe and, with Professor Christopher Hamlin of Hunter College, New York, on the development of a computer analysis of the million or more potsherds from Period III (2400—1300 B.C.) at Godin Tepe.

### **Lectures, Conferences, Teaching, and Other Services**

Altogether members of the Department attended five major scholarly conferences this year and delivered a total of 21 academic lectures or papers in four different countries. They also lectured or otherwise performed in public on numerous other less academic occasions. All such efforts, we hope, increase the Museum's reputation for reaching out to and contacting a wide public audience ranging from highly specialized scholars to grade-school children.

The staff of the Department taught three undergraduate and three graduate courses at the University of Toronto, participated in the examination of three doctoral candidates, and served on two Ph.D. dissertation committees. In addition, Dr. Keall gave a non-credit Extension course at the University of Toronto which culminated in a three-week study tour of North Africa and Spain entitled "From Cairo to Cordoba; in the footsteps of the Moors".



The north face of Godin Tepe, as it looks after five seasons of excavation. Photo taken on the last day of a ten-year project, August 28, 1973.



# The McLaughlin Planetarium

H.C. King, Curator

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Drs. Keall, Levine, and Young all served on curatorial or directorial committees. In the wider community Dr. Levine was elected Secretary of the American Institute of Iranian Studies and Dr. Young was elected President.

In one way or another the whole staff of the Department contributes to all this activity. Again Mrs. Ronald Hart of the Members' Committee pulled her weight as a volunteer, Terry Wang, our secretary, maintained order and some decorum in our ranks, and Peter Mitchell and Claus Breede, the Department's technicians, not only backed up the curatorial staff but made some notable contributions on their own.

In closing, here is an example of just how unusual our activities sometimes can be. Drs. Keall and Golombek at one point this year found themselves acting as consultants to an architectural firm which had the contract to design the new University of Riyadh in Saudi Arabia. It seems the firm needed expert advice on how to build a proper Islamic mosque, a matter of some importance of which it had no experience.

There is never a dull moment in a good year.

The Star Theatre continued to be the focal point of staff activity, with particular emphasis on the style and content of pre-recorded public shows. Curatorial and technical staff experienced the full impact of the demands of show production, the specific problems of which were outlined by Dr. T. C. Clarke in the June issue of *ROM*. Four shows were produced during the year, each the result of several months' coordinated activity. Contributing to their success were the facilities of the Planetarium sound studio established through the McLaughlin endowment, the consistently high standard maintained by George Finstad, the main narrator, and the services of Mr. R. Ballantyne, who added show-tape production to his other curatorial duties. Even so, the lack of a highly skilled sound technician on the permanent staff led to unavoidable delays and difficulties in production and placed undue burdens on the curatorial staff.

## Star Theatre Shows

The year opened with "A New Universe", written and produced by Dr. Clarke. In this, audiences were invited to look beyond the conventional picture of the universe of stars to one based on observations of X-ray, radio, and other "invisible" radiations. To introduce the latter Dr. Clarke used an automatic series of optically projected displays that covered the full range of the electromagnetic spectrum and also indicated the restrictions imposed by radiation absorption in the earth's atmosphere. New to the Planetarium sky were two overlays, projected on the Milky Way to show contours of equal energy intensity at widely different frequency levels. Other visual effects assisted in outlining the nature and significance of the X-ray source Cygnus X-3, the Crab Nebula, and pulsars, quasars, and "black holes".

High public expectation that Comet Kohoutek might prove to be "the comet of the century" dictated the content of "The Comet Connection", written and produced by Mr. R. Ballantyne. This contained a regularly updated segment that gave current information about the comet's position, brightness, and visibility and included photographs of its tail taken through large telescopes by Canadian astronomers. In fact, public interest reached such high levels towards the end of the year that Mr. Ballantyne instituted a Planetarium telephone service in which a recorded voice gave the latest comet news. This proved so popular that it was continued in order to provide up-to-date information of other interesting events in the night sky. For most Canadians the comet, a relatively faint object, eluded detection, but those who attended "The Comet Connection" saw a highly realistic portrayal of a large, bright comet set against the background of Zeiss stars. More important, they had a well-illustrated introduction to comets and cometary orbits, saw a 360-degree montage of photographs of Comet Halley during its apparition in 1910, and, in a particularly impressive scene, learnt about the possible origin of comets.

For the spring and early summer of 1974 Dr. Clarke wrote and produced "Stars, Bears, and Dragons", in which



constellations in the spring sky provided a setting for myths about the stars, stories associated with the passing of winter, and some indication of the magnitude of the information explosion in modern astronomy. The effects of precession of the equinoxes were shown in dramatic fashion, aspects of ancient Chinese astronomy received their first introduction to the Star Theatre, and the Canadian Indian spokesman, Duke Redbird, narrated a Blackfoot Indian legend about the Great Bear and stars of the Big Dipper.

### Educational Programmes

For the Planetarium's programmes for schools, Mr. W. Peters devised "Journey to the Planets" (grades 3 to 6) and "Stars, Sun, and Planets" (grades 7 to 10). The introduction of shows for two different age groups was greatly appreciated by students and teachers alike. Mr. Peters also participated in a workshop for teachers held at the Planetarium and sponsored by the Department of Astronomy, University of Toronto, and the Toronto Centre of the Royal Astronomical Society of Canada. In addition, the Curator gave sessions to teachers-in-training on planetarium philosophy and the value of the Zeiss equipment as a teaching aid.

Further contributions to the Planetarium's educational programme were Star Theatre demonstrations given by the Curator to members of the Toronto Power Squadron and students of the Institute of the History and Philosophy of Science and Technology. Dr. Clarke gave eight demonstrations to a total of 900 students of astronomy from various colleges, and Mr. N. Green gave special demonstrations to various groups, among them the 140th Cub Pack of Toronto, the staff and associates of the National Defence College, and employees of "Parkwood", home of the late Col. R. S. McLaughlin.

During calendar year 1973 the Planetarium had 233,500 visitors, representing roughly 31 per cent of the total attendance for the main building of the ROM. Of these, 207,300 visited the Star Theatre. Students and teachers in organized groups and parties accounted for 72,600 visitors, an encouraging figure in view of the severe cutback in school budgets for extra-mural activities.

### Research

The receipt of a substantial grant from the Canada Council enabled the Curator to extend his research in the history of planetary machines and astronomical clocks. The grant made it easier to obtain translations of early German, Dutch, and Italian literary material and increased the acquisition of photographs of special artifacts and of photostat copies of rare texts. The Curator collected data on specific instruments and clocks in public collections at Vienna, Washington, and Philadelphia, and, during a vacation in Cairo at the American Research Center in Egypt, studied aspects of mediaeval Islamic timekeeping. His book *Geared to the Stars* reached final outline, with about 80 per cent of the text in second-draft form. He spoke on antiquarian horology to a Toronto meeting of the



Joe Moleiro, Junior Technician, adjusting the lamp-holder of one of the Star Theatre supplementary projectors.

National Association of Watch and Clock Collectors and in the Continuing Education Programme of University Extension gave 12 lectures on the history of cosmology.

Dr. Clarke continued his cooperative research with Professor E. R. Seaquist of the Department of Astronomy, University of Toronto, into the circular polarization of quasars and had three observing sessions with the 46-meter radio telescope of the Algonquin Radio Observatory. He attended the second meeting of Canadian Radio Astronomers at Kingston and also the joint congress of the Canadian Association of Physicists and the Canadian Astronomical Society at St. John's, Newfoundland. In August he was elected member of the International Astronomical Union. He continued to be responsible for the overall planning of public-show production and for the development of technical facilities of the Star Theatre, served as Chairman of the ROM Science Curators Council, and gave a lecture in the Art and Archaeology series "Did Man Make Himself?"



# Botany

## Leila Gad, Curatorial Assistant

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### Other Activities

Mr. Green handled administrative details and had overall responsibility for the house staff. He received superb cooperation from the ladies of the Members' Committee who volunteered to conduct tours through the Planetarium display area. These ladies proved apt and eager pupils, doubled their duties to include tours on Tuesday and Thursday afternoons, and were especially effective in providing visitors with up-to-date information on Comet Kohoutek and the Mariner 10 missions to Venus and Mercury. Mr. Green represented the Planetarium at the Copernicus Symposium held in Ottawa by the Royal Society of Canada, and in an advisory capacity visited small planetariums at McMaster University, Seneca College, and Collingwood. He also contributed to the ROM Extension course by giving eight lectures on "Introducing Astronomy" and addressed various service clubs, Church groups, and other organizations on the subject of astronomy and the Planetarium.

Mr. Ballantyne and Mr. Peters spent part of their vacation in Kenya to observe the total eclipse of the sun of June 30, 1973. At a meeting in Edmonton of the Planetarium Association of Canada, Mr. Ballantyne was elected President and Mr. Peters Secretary-Treasurer. Mr. Peters also became appointed member of the Council of the Toronto Centre of the Royal Astronomical Society of Canada. Mr. Ballantyne and Mr. Peters contributed jointly to the ROM Extension course by giving two series of eight lectures on observational astronomy. During the year Mr. Ballantyne, largely on his own initiative, contributed to at least 18 different radio and television programmes and thereby earned the Planetarium valuable free publicity.

### Staff Changes

Among other changes in the full-time and part-time staff, Mrs. L. Spicer, formerly of the Department of Vertebrate Palaeontology, succeeded Mrs. C. Gross as Department Secretary, and Mr. D. Bray replaced Mr. R. O'Neill as House Manager. Another new arrival to the full-time staff was Mr. J. Moleiro, who as Junior Technician took over the duties of Mr. D. Halley.

Over the past few years lack of space has become an increasingly serious problem for the Vascular Plant Herbarium, presently housed on the third floor of the University of Toronto Botany Building. Storage space for the permanent collections is cramped, and when additional space does become available priority often has to be given to valuable research materials held on loan from other institutions. At the same time, use of the Herbarium facilities for research by students and staff has never been more intensive. This activity may reflect the increased general awareness of the importance of taxonomic and floristic studies as bases for work in other fields. All these circumstances together with adjustments due to staff changes, have necessitated a heavy emphasis on administrative and curatorial duties. Dr. Cruise, Curator of the Vascular Plant Herbarium, had another very busy year as Associate Dean of the Faculty of Arts and Science and Mrs. Gad guided many of the day-to-day activities of the Herbarium.

### The Collections

In spite of accommodation problems the collections continue to grow. Staff and student field trips added new records from localities in Southern Ontario, particularly from points along the edge of the Precambrian Shield and from the valleys and ravines to the west of Metropolitan Toronto. There are few natural areas in the Toronto region which remain untouched, and these should be protected from heavy collecting activities as much as possible. Attempts are made to collect replicate specimens for exchange and class use only from disturbed areas or from those areas already scheduled for destruction.

Interesting exchange material has been acquired this year from a variety of institutions. Particularly valuable are contributions from Lakehead University, from Ottawa, and from various universities in Quebec and the United States. As usual a number of valuable private collections were donated, including specimens from James Bay, Haliburton County, Simcoe County, and the Muskoka District—all poorly botanized parts of Ontario. Mr. Paul Catling made some particularly important contributions of Ontario orchids and of species peculiar to calcareous habitats in Ontario.

### Research and Publications

Since the Herbarium is attached to a university department the research work of undergraduate and graduate students requires special attention and curatorial staff are involved in assisting them. Masters' degrees were received this year by students who completed biosystematic studies of Ontario Juneberries (*Amelanchier* spp.) and Grass-of-Parnassus (*Parnassia* spp.). Loans were requested from European and North American herbaria for graduates embarking on work on Fireweeds (*Epilobium* spp.), Blue-eyed Grass (*Sisyrinchium* spp.), and Gromwell (*Lithospermum* spp.).

At present over 15,000 borrowed specimens are being used in the Herbarium, including a large number of sheets



# Department of Entomology and Invertebrate Zoology

Glenn B. Wiggins, Curator

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of the legume genus *Rhynchosia*. Dr. Grear's revision of this genus is nearing completion, and a paper was published with E. K. Ramcharan and J. H. McAndrews on the pollen morphology of selected species.

Studies in the flora of Ontario have been directed by Dr. Cruise who also published a number of papers, including one with Dr. Erich Haber on the Shinleaf Family (Pyrolaceae). Articles in the *Ontario Naturalist* included one on unusual forms of Trillium, of which Mrs. Gad was co-author. Other articles concerning Pokeweed, Ginseng, and Hops have been accepted for publication or are under preparation.

## Teaching

Besides attending to their curatorial duties, answering a steady flow of telephone and mail enquiries, and conducting research, Herbarium staff help in teaching and demonstrating undergraduate courses. This year Mrs. Gad helped to teach a new Extension course on "The Evolution of Cultivated Plants". This entailed the preparation of a number of displays on such subjects as tropical crop plants, and the presentation of occasional lectures. Mrs. Gad also acted as a volunteer instructor for the ROM Saturday Morning Club, introducing the Herbarium, the Botany Department greenhouses, and various laboratory facilities to the visiting children. In addition, she led a number of spring field trips for naturalist clubs and continues her involvement with the Toronto Field Naturalists Club as display coordinator and as a member of the Board of Directors.

Growth in working area and in staff reported last year has contributed substantially to the achievements of the Department this year. Our collections are improving rapidly in content and efficiency of use, and our staff is involved in a broadening range of scientific and educational matters. It has been a good year.

It is a pleasure to record Dr. Barr's promotion to the rank of Associate Curator in the ROM and his appointment as Assistant Professor in the Department of Zoology, University of Toronto.

## Exhibitions

The Department's major contribution this year was the temporary exhibit "Along Came a Spider" presented in the third-floor exhibition alcove from September 18 to October 17. Dr. Barr and Mrs. Buckley organized the exhibit and provided specimens, many of which were maintained alive. A revised version of the same show was set up in the Ontario Science Centre for two weeks; discussions are currently under way for its conversion to an ROM travelling exhibit. Meanwhile, the Department's travelling exhibit of Canadian insects continued to circulate through libraries in Toronto, North York, and Etobicoke.

## Field Work and Research

In August Dr. Wiggins was a Visiting Investigator at the University of Montana Biological Station, where he pursued field studies on Trichoptera (caddisflies). In collaboration with Dr. Rosemary Mackay, NRC postdoctorate fellow in the Department, he continued work on a study of the organization of animal communities in temporary pools; and with assistance from Messrs. Yamamoto and Odum, he made progress with the manuscript for the book *Larvae of the North American Trichoptera* and for two other papers. These studies were all supported by the National Research Council.

Dr. Barr continued his work on water mites with a study of reproductive organs and also of sensory structures using electron microscopy; and he began study of the swimming behaviour of water mites. One paper on a new genus and species from British Columbia was completed. Dr. Barr's research was supported by funds from the National Research Council and the Canadian National Sportsmen's Show.

Dr. Ball collected marine planarians (flatworms) and other littoral invertebrates at coastal localities in Massachusetts, Maine, and New Brunswick. In January and February he was in Brazil at the Department of Zoology, University of São Paulo, making field collections and observations on marine and freshwater invertebrates. Dr. Ball's work in Brazil was partly supported by a grant from the Fundação de Amparo à Pesquisa do Estado de São Paulo. Two papers were completed in his study of southern hemisphere planarians. In collaboration with Dr. Nicole Goubault of Paris, who worked in the Department under the Canada-France cultural exchange programme, Dr. Ball began a morphological and



cytotaxonomic study of temporary-pond planarians. He also continued work on his *Handbook of Eastern Canadian Planarians* and visited the United States National Museum for study of specimens and for consultation with workers there.

The Rev. J. C. E. Riotte, a Research Associate studying Lepidoptera (butterflies and moths), continued his research on the Lymantriidae (tussock moths), a group in which the larvae are important defoliators of trees and shrubs. Three papers were published from the study. He spent November in the Bishop Museum, Honolulu, studying collections of Sphingidae (hawk moths) from the Pacific area and New Guinea, and visited the Los Angeles County Museum of Natural History in connection with the same study.

### Collections

Further progress was made this year in reorganizing our collections for more effective use. Staff members were especially active in this phase of our work, in particular, Mr. Yamamoto (Trichoptera), Mrs. Buckley (arachnids), Mr. Frania (Coleoptera), Mr. Bruce Smith (Hemiptera),

Father Riotte (Lepidoptera), Mrs. Sutton (water mites), and Dr. Guirgis, a volunteer, (Diptera). We have also been fortunate in having Dr. A. H. Clarke of the National Museum of Canada identify part of our collection of freshwater molluscs, Dr. J. W. Reynolds of the Tall Timbers Research Station, Florida, identified our entire collection of earthworms, incorporating the data into his manuscript on the earthworms of Ontario, now submitted for publication by the ROM.

### Lectures and Teaching

Two University of Toronto courses were given by staff members: "Aquatic Entomology" by Dr. Wiggins, and "Advanced Invertebrate Zoology" by Dr. Barr. Dr. Wiggins supervised the work of two graduate students and lectured to students in the museology course and to a class from the Canadian Armed Forces Medical School. In March he presented an invited lecture at a Symposium on Trichoptera in Cincinnati, sponsored by the National Benthological Society. Dr. Barr presented a paper on his water-mite research at the First International Congress of Systematic and Evolutionary Biology in Colorado. Dr. Ball gave lectures on phylogenetic systematics in the



Face view of an Ontario jumping spider (Salticidae) from the exhibit "Along Came a Spider". Photograph by Dr. W. A. Crich.



University of Toronto, and on his research to the invertebrate zoology section of the Smithsonian Institution. Father Riotte gave two lectures to students at the Queen's University Biological Station. Approximately 13 other lectures and talks were given by staff members.

### **ROM Committee Service**

Dr. Barr served as Editor of ROM Life Sciences publications until January, and then as an Associate Editor. Dr. Wiggins and Dr. Barr were coordinators for the Laboratory of Analytical Systematics. Dr. Wiggins continued to serve as Chairman of the ROM Study Committee concerned with revisions to the Museum Act.

### **Other Departmental Activities and Public Service**

The Department participated in organizing a showing of the remarkable insect film *The Hellstrom Chronicle* for the Museum's Sunday-evening film series. After the film some of its controversial ideas were discussed by a panel chaired by Dr. Wiggins. We were fortunate in having, as a member of the panel, Dr. C. L. Hogue, Curator of Insects at the Los Angeles County Museum of Natural History and technical consultant for the film.

Our collection of colour slides of invertebrates was enriched this year by the purchase of approximately 100 superb slides from Dr. Aubrey Crich, Grimsby, Ontario, with funds from the ROM Purchase Trust.

Nine popular articles on invertebrates were produced by Dr. Barr, Mrs. Buckley, and Mr. Odum collectively. Based on results of the Department's survey of domestic spiders in the Toronto area, the manuscript of a popular booklet on household spiders was completed by Mrs. Buckley. Two CBC Radio interviews concerning insects and human beings were given by Dr. Barr. Mrs. Buckley appeared on one television programme and served as consultant about spiders for another.

The Department continued to meet requests from universities and other research institutions for the identification of specimens in the groups in which we have established competence. Loans from our collections to other research workers continued. Our role as a centre for information on invertebrate animals for the public, government, and industry goes on: some 500 requests were met during the past year.

### **Staff Notes**

We welcome Mr. David Harris, appointed as a Field Associate this year, and Mrs. Helena Hsu, who came as secretary in our Invertebrate Zoology section, replacing Mrs. Forrester who resigned. And finally all of us record our appreciation to our Department Secretary, Judy Allan, for assistance in every part of the year's accomplishments.

## **Department of Geology**

### **S.B. Lumbers, Associate Curator-in-charge**

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During the past fiscal year the Department of Geology underwent several major changes beginning in September 1973, when Dr. S. B. Lumbers was appointed Associate Curator-in-charge. In October 1973 Mrs. Joyce Grant was appointed Department Secretary. Renovations of the departmental offices were completed and a new petrographic laboratory was added.

With the appointment of Dr. Lumbers, whose major research interests are Precambrian geology and igneous and metamorphic petrology, the Department's activities now centre on two major fields, geobotany and petrology. Dr. J. H. McAndrews, Associate Curator, continues to direct the work of the Geobotany Laboratory.

### **Geobotanical Research**

The Geobotany Laboratory had an active and productive year, during which two new graduate students joined the laboratory. Mr. Eugene Ramcharan is studying the systematics of Ontario *Lithospermum*, and Mr. Les Cwynar is studying the fire history of Algonquin Park.

Dr. McAndrews and his co-workers, Miss Maria Boyko, Dr. A. R. Byrne, Mr. William Finlayson, Mr. L. Kalas, and Mr. L. King, completed their geological, botanical, and archaeological investigations at Crawford Lake and have incorporated their results in reports to the Canada Council and to the 37th annual reunion of the Eastern Chapter of the Friends of the Pleistocene. Research on varved sediment lakes similar to Crawford Lake was also carried out by Dr. McAndrews, Miss Boyko, and Dr. M. Saarnisto, Research Associate. Results of this work were summarized in a paper presented to the American Association of Stratigraphic Palynologists.

Dr. McAndrews did palynological studies for the Atlantic Geoscience Centre and the Fort William Archaeology Project and participated, along with Miss Boyko, in an expedition to the Northwest Territories.

Mr. Reg Adams, Field Associate, delivered a joint paper with Dr. McAndrews to the Canadian Botanical Association on the pollen rain of Ontario. Mr. Frank Huhn, graduate student, completed a thesis on the environmental history of the Sudbury region with the support of a grant from the Ministry of Colleges and Universities.

A Life Sciences publication entitled *Key to the Quaternary Pollen and Spores of the Great Lakes Region*, prepared last year by McAndrews, Berti, and Norris, has received excellent reviews. The paper is being reprinted and is used as a textbook in a dozen universities.

### **Petrologic Research**

Before joining the ROM, Dr. Lumbers conducted research on the Precambrian of Ontario for the Ontario Division of Mines, Ministry of Natural Resources, concentrating on the Grenville Structural Province. This work is continuing at the ROM, and field work was carried out during





Dr. J. H. McAndrews studying a primitive artifact at Crawford Lake.

September 1973 and May and June 1974 in the Mattawa and Ottawa Valleys. Preliminary results of this work are reported upon in publications of the Ontario Division of Mines. Laboratory research and preparation of manuscripts are in progress concerning earlier work on other projects for which field investigations have been completed.

Research is also being conducted on anorthosite suite intrusive rocks, alkalic rock-carbonatite complexes, and volcanic rock suites from the Superior Province, partly in conjunction with colleagues at the University of Toronto, ROM's Department of Mineralogy, the University of New York at Stony Brook, and the Carnegie Institution. Some results of this work were presented in a joint paper with Mr. C. Simmons and Dr. G. N. Hanson, both of the State University of New York at Stony Brook, at the annual meeting of the American Geophysical Union in Washington, D.C.

In September and October Dr. Lumbers, together with Dr. R. I. Gait of ROM's Department of Mineralogy, visited the Republic of South Africa in conjunction with the First International Kimberlite Conference and collected a large number of kimberlite and related rocks. This visit is

reported upon in more detail in *Rotunda*. Dr. Lumbers also attended meetings, held in Ottawa, on the Grenville Province and the annual meetings of the Geological Association of Canada and of the Mineralogical Association of Canada, held in St. John's, Newfoundland.

### Collections

Mrs. Siddiqi continues her work in maintaining the geobotany collection and in compiling the Quaternary data bank. This data bank will be used in a summary of the vegetation and climatic history of North America for the past 14,000 years.

Dr. Lumbers, assisted by Mrs. Jean Charing, Mrs. Melita Scheffel, and Mr. P. Teewiss, is in the process of reorganizing the petrology collection and of establishing a comprehensive research reference collection of Ontario Phanerozoic and Precambrian rocks. During the year over 2,000 new specimens were added to the collection, about 1,500 of which were donated by Dr. Lumbers. Other specimens reported upon in *Rotunda* were donated by various individuals and institutions.

Mrs. Charing has undertaken a major reorganization of the thin-section and grinding laboratory shared jointly with Mineralogy and Invertebrate Palaeontology. The purpose is to improve the facility for the production of large numbers of thin sections for the petrology collection. Mr. U. Grassi assisted Mrs. Charing in the redesign of some of the equipment.

The Department's collections of geological maps, reprints, and other geological data are being indexed and reorganized by Mrs. Scheffel, and work has begun on the preparation of a bibliography of Ontario Geology.

### Teaching, Lectures, and Field Trips

Dr. McAndrews taught undergraduate and graduate courses in the Department of Botany, University of Toronto, and the Department of Ecology, University of Minnesota. He has accepted a visiting lectureship in the Department of Anthropology, University of Manitoba, where he will spend his forthcoming sabbatical year. He conducted several field trips and gave lectures to such diverse groups as Grade 6 of Campbellville School and the Burlington Historical Society.

Dr. Lumbers assisted in the supervision of two graduate student theses at the Department of Geology, University of Toronto, counselled other students on theses problems, and delivered several lectures to local scientific and natural history groups.

### Public Service and Miscellaneous Staff Activities

Forty individuals submitted rock specimens for identification, and 33 letters were sent in answer to enquiries. A large number of other written and telephone enquiries for geological information were received. Most of these enquiries were processed by Mrs. Jean Charing, assisted by Mrs. Joyce Grant.



# Department of Ichthyology and Herpetology

W.B. Scott, Curator

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Several visiting scientists from Ontario and elsewhere made use of the geobotany and petrology research reference collections, and some specimens were provided for research purposes to other institutions. Rock identifications were made for the Conservation, Greek and Roman, and Archaeology departments.

Mrs. Melita Scheffel is actively involved with the Saturday Morning Club, serves as President for the Willowdale Gem and Mineral Club, and has been appointed Vice-President for the Gem and Mineral Club of Scarborough.

## ROM Committee Service

Dr. Lumbers served on the Disposal Committee and is Chairman of the Committee on Non-Curatorial Salaries.

## Galleries

Mr. Peter Teewiss and Mrs. Jean Charing carried out and supervised several repairs on the Geology galleries during the year, the most important of which was the refinishing of the pool at the base of the Bickell Globe.

A survey of the galleries was completed by Dr. Lumbers in order to determine what could be done to update existing displays and to add new displays. Negotiations are at present under way with Dr. Strangway of the Department of Geology, University of Toronto, to obtain material for a new exhibit on the geology of the moon.

## Honours

Dr. Lumbers was elected a correspondent to the Subcommittee on Precambrian Stratigraphy of the International Union of Geological Sciences. Dr. McAndrews was appointed to the National Research Council Associate Committee on Quaternary Research.

This was a noteworthy year in the Department of Ichthyology in at least one respect. *The Freshwater Fishes of Canada* (Bulletin 184, Fisheries Research Board of Canada), written by Drs. Scott and Crossman, was finally published. The first copy was received by the curators on January 3, 1974. All reports indicate sales are above expectations. The French translation of the Bulletin is now in press and should be available in the fall of 1974. Work on the Bulletin commenced in 1966.

We were sorry to lose two staff members during the year. Miss Kathy Ribbens, Department Secretary, left in November 1973 and Mr. Eldon Smith, Technician, in May 1974.

## Field Work

Field work was conducted in various parts of Ontario and abroad. Dr. Crossman commenced a field programme at Nogies Creek, Kawartha Lakes region, Ontario, in which particular attention is being given to muskellunge, and he continued his biological and biochemical researches on esocoid fishes. He has also completed, with the backing of the Quetico Foundation, a study of the fishes of Quetico Provincial Park. The report awaits publication.

In cooperation with the Ontario Ministry of Natural Resources and the International Field Year of the Great Lakes (IFYGL), field studies were conducted by P. Buerschaper and E. Smith in the lower reaches of streams flowing into central and western Lake Ontario.

Field work on the sounds produced by fishes was conducted by Dr. A. R. Emery both in Atlantic and Pacific waters of Costa Rica and in Ontario waters. The sounds produced by a number of families of fishes have been recorded and will eventually be used in a gallery exhibit demonstrating underwater sounds. Dr. Emery also undertook further field work on the biology of the black basses in Algonquin Park lakes and in Lake Huron, and continued his studies on the systematics of the damselfishes. These studies have been aided by the Smithsonian Institution, Washington, D.C., which has requested Dr. Emery to coordinate the study and use of its damselfish collection by researchers in North America. Many hundreds of damselfishes are now on loan to the ROM from the Smithsonian to aid Dr. Emery's research.

Studies on Atlantic fishes were continued at St. Andrews, N.B., by Dr. W. B. Scott, with particular emphasis on a revision of *The Fishes of the Atlantic Coast of Canada* (F.R.B. Bulletin 166). Studies on the lanternfishes (Myctophidae) were also continued.

## Exhibitions

The Department participated in the Challenger Exhibition, a travelling exhibit from the Nova Scotia Museum, which was on display in the third-floor Rotunda in March 1974.





Dr. E. J. Crossman examining a largemouth bass for indication of past capture, at muskellunge research site near Bobcaygeon, Ontario.

A fine mount of an Atlantic bull shark, on loan from Mr. D. McLeish, Rexdale, Ontario, was installed in the fish gallery in June 1974.

Mr. Peter Buerschaper, in cooperation with Mr. T. M. Shortt, has devoted considerable time and effort to the planning and organization of a special exhibition entitled "Animals in Art", to be held in the ROM in October and November 1975.

### **Collections**

The machine cataloguing system reported last year is proceeding satisfactorily. This year's total of units catalogued is more than double last year's and is the largest number of specimens (19,000) catalogued in any one year.

Loans of research material and gifts of study specimens to museums, universities, and allied institutions in Canada and abroad continue to be a vital part of the Department's programme.

### **Lectures, Honours, and Appointments**

A two-semester course in ichthyology (University of Toronto Course, Zoo. 465), was presented by Drs. Scott and Crossman from September 1973 to April 1974. Both curators are cross-appointed to the professorial staff of the University of Toronto and participate in graduate training programmes in Zoology.

Dr. Crossman was a guest lecturer at Wilfrid Laurier University, Waterloo, and gave lectures to the Toronto Anglers' and Hunters' Association and to the Resources School at Dorset (Ontario Ministry of Natural Resources). He also presented papers at the annual meetings of the American Society of Ichthyology and Herpetology and the Canadian Council for Freshwater Fishery Research. Dr. Crossman serves on the Board of Directors of the Toronto Anglers' and Hunters' Association, as Chairman of the Long Range Planning Committee, American Society of Ichthyology and Herpetology, and as a member of the steering committees for the Metropolitan Toronto and Region Fisheries Study (Ontario Ministry of Natural Resources) and the Kawartha Lakes Fisheries Management Unit.

Dr. Emery organized and ran a highly successful lecture series on oceanography in the Museum theatre from January 31 to March 7, 1974. He also gave lectures at the University of Toronto, York University, Metro Toronto high schools, and diving clubs and presented a paper at the annual meeting of the Canadian Council for Freshwater Fishery Research in January 1974. Dr. Emery serves on the Editorial Board for ROM publications and on the Committee on Non-Curatorial Salaries.

Mr. Peter Buerschaper was elected to the Board of Directors, Federation of Ontario Naturalists, in June 1974.

Dr. Scott has served on the Grants Committee of the Canadian National Sportsmen's Show in recent years and in June 1974 was elected to the Show's Board of Directors. He held office as President and general chairman of the annual meeting of the Canadian Council for Freshwater Fishery Research in Ottawa in January 1974, and during 1973 as President of the American Society of Ichthyology and Herpetology. He also serves on the Board of Directors of the Metropolitan Toronto Zoological Society. On July 1, 1974, he was appointed Associate Director, Royal Ontario Museum.



# Department of Invertebrate Palaeontology

D.H. Collins, Curator

Planning for the new gallery of Invertebrate Palaeontology and faster processing of the data on our permanent collections for computer-based storage and retrieval were the Department's major efforts in 1973-74.

## The Gallery and the Collections

Daily meetings of the entire departmental staff over four months produced detailed plans for the renovation of the gallery. After discussion with the Design Department, construction should begin in the spring of 1975.

A major change is the new emphasis on Precambrian life, i.e., life that existed more than 600,000,000 years ago. Evidence of Precambrian life has increased enormously since the discovery in the 1950's of the great variety of single-celled plants in black chert about 1,900,000,000 years old from Schreiber, Ontario. Display specimens were collected in southeastern Newfoundland, in Great Slave Lake, N.W.T., and around Thunder Bay, Ontario. The Newfoundland specimens are particularly noteworthy because they comprise the oldest varied metazoan fauna yet found anywhere in the world. Collins, von Bitter, Sabelis, and Barnett did the collecting, with the help of Professor M. M. Anderson of Memorial University of Newfoundland, Mr. R. Hornal, District Geologist in Yellowknife, and Dr. James Franklin of Lakehead University.

Dr. Harish Verma, Mrs. Joy Saunders, Mrs. Mary Nazer, and Miss Janice Fischer, under the supervision of Mrs. Janet Waddington, catalogued several major groups of our permanent collections with the help of a Catalogue Assistance Grant from the National Museums Policy Committee. Earlier cataloguing produced an updated print-out of type and figured specimens, which is now being edited for publication.

## Special Research

Research into the Feasibility of Techniques for the Standardized Description of Fossils, begun last year by Dr. Raul Vicencio, Research Fellow, continued to its conclusion at the end of the year, supported by a Research Agreement with the Department of Energy, Mines and Resources. The results of the study are expected to be submitted shortly to the Canadian Centre for Geoscience Data for publication. Dr. Vicencio leaves us for a teaching appointment at Erindale College of the University of Toronto.

## Field Work

With the help of a National Research Council grant, Dr. Collins spent a week in New Caledonia in the southwest Pacific studying *Nautilus*, the only living representative of the fossil nautiloid cephalopod molluscs that are so common in Ontario. While in the Pacific, Dr. Collins went on to northwestern Australia, where he collected living stromatolites in Shark Bay for the gallery and fossil nautiloids for his research. Logistics in this remote area was generously provided by a Westralian Petroleum field party.



H. Sabelis cutting out a large fossil from limestone with a portable pavement saw.

Dr. von Bitter, Assistant Curator, collected faunas of micro- and macro-fossils in the Silurian and Devonian of Nova Scotia and in the Mississippian of Nova Scotia and western Newfoundland.

Dr. T. P. Fletcher, Research Associate, as a member of the International Union of Geological Sciences Precambrian/Cambrian Boundary Working Party, collected Cambrian fossils for the ROM in Siberia.

Dr. A. J. Rowell, Research Associate, collected Cambrian inarticulate brachiopods in eastern Newfoundland in July for his research.

Dr. Harish Verma, Research Fellow, collected ammonoids in western Canada in the summer of 1973 and in southern India on a private visit in the early summer of 1974.

In Ontario, Collins, von Bitter, Monteith, Waddington, Sabelis, and Barnett visited localities near Arkona, Havelock, Craigleith, Brockville, Ridgeway, and Grimsby.



### Meetings

Drs. Collins and von Bitter attended the annual meetings of the Canadian Museums Association and the Geological Association of Canada in St. John's, Newfoundland, and participated in a field trip to the western Newfoundland Palaeozoic. Dr. von Bitter also attended and presented two papers at the joint annual meeting of the North-Central Section of the Geological Society of America and the Pander Society, held at Kent State University, Ohio, in May.

### Teaching

Dr. von Bitter was appointed Adjunct Professor in the Geology Department of the University of Waterloo this year. In addition to giving a seminar at Waterloo, he lectured to classes at the University of Toronto and at the Ontario Institute for Studies in Education.

Dr. Collins presented lectures to classes in geology and zoology at the University of Toronto as well as helping to supervise two graduate students at McMaster University. While representing the Museum at the Algoma Fall Festival in Sault Ste. Marie, he instructed teachers in the best use of the Museumobile on "Fossils of Ontario". The Museumobile has been very well received on its visits throughout Ontario and has generated both added interest and a marked increase in requests for identification of Ontario fossils.

### Other Activities

Professor Madeleine A. Fritz, Research Associate, continued her studies on the fossil Bryozoa of the Toronto area. Her most recent study on *Heterotrypa* is in press as a ROM publication.

Dr. Bruce Waterhouse, Research Associate, published his *Communal Hierarchy and Significance of Environmental Parameters for Brachiopods: the New Zealand Permian Model* as a Life Sciences Contribution this last year. He and Mrs. Waddington are currently studying Permian brachiopods from the Yukon.

John Monteith, Curatorial Assistant, continues to answer queries and to identify the many specimens brought in by the public. The demand for these services has been particularly heavy this year because of the interest generated by the Museumobile.

Mrs. LaVerne Russell was promoted to Senior Technician this year in recognition of her capable operation of the micropalaeontology laboratory. Huibert Sabelis reorganized the support aquaria in readiness for the restocking of the gallery aquaria and prepared specimens for display and research. Robert Barnett, who has been with the Department for two summers, returned to help with the renovation of the gallery.

Miss Joan Burke, the indispensable Department Secretary, performed her myriad tasks as receptionist, accountant, typist, librarian, and editor in her usual



Impression of a Precambrian sea-pen with basal disc, stem, and fully extended branches, from 700-million-year-old rocks exposed near Cape Race, Newfoundland.

competent way, ensuring the smooth operation of the Department. She is now serving on the Museum Grievance Committee.

Mrs. Mary Taylor worked on the shell collection she made on her Pacific trip last year. Another volunteer, Mrs. Diane MacFeeters, picked microfossils.

It has been an active year.



# Department of Mammalogy

R.L. Peterson, Curator-in-charge

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Field work, research, teaching, scientific conferences, the acquisition of new specimens, and service to the public were typical activities of the Department during the year.

## Field Work, Research, and Publications

Curatorial staff and Research Associates were sole or joint authors of 12 published scientific reports and of other papers in press or in preparation.

Dr. Peterson continued his studies of molossid bats and Arctic Hares from the Old and New Worlds. With Dr. D. A. Smith, Carleton University, Ottawa, Dr. Peterson described a species of *Glauconycteris* new to science. He studied bat collections at Tulane University, New Orleans, in November and at Texas Tech University, Lubbock, in May and also studied specimens of Arctic Hares in Moscow, U.S.S.R., in June.

Pursuing their collaborative studies on bats, Drs. Tamsitt and Valdivieso collected almost 500 specimens, blood smears, and serum samples in Colombia between July and September. With Dr. J. de la Cruz, La Habana, Cuba, they described three new species of listrophorid bat mites and published data on electrophoretic properties of serum proteins of bats. With Dr. Peterson, Dr. Valdivieso initiated a histological study in molossid bats to determine the morphology and function of the basisphenoid pits and related structures.

Ms. J. Eger obtained her M.Sc. degree in zoology at the University of Toronto in October. She described a new subspecies of the bat *Eumops auripendulus* from South America and studied specimens of the bat *Molossus molossus* at the American Museum of Natural History, New York, in October and April. Assisted by Mr. Robert Glen, Ms. Eger collected 300 specimens of bats and karyotyped 15 species in Kenya in December and January.

Mr. Nagorsen continued research on chromosomes of African bats, and Ms. L. Lortie continued her work with data from Arctic Hares and bats for computer analyses.

Field research took Mr. Herbert to Dominica in August and Dr. Fenton to Rhodesia in December and January and to Colombia in February.

Research activities were funded by the ROM, by grants from the National Research Council of Canada to Drs. Peterson and Tamsitt, and by a grant from the Theodore Roosevelt Memorial Fund to Ms. Eger.

## Scientific Conferences

Drs. Peterson and Fenton and Ms. Eger presented papers at the fourth Annual North American Symposium on Bat Research, November 23-25, at New Orleans. In April Dr. Fenton presented an invited paper at the Ontario Ecology Colloquium, York University, Toronto. Dr. Peterson represented the ROM at the Association of Systematics Collections, May 2-4, at Lubbock, Texas, and continued to

serve on the Membership Committee. With Ms. Eger he also attended the annual meeting of the American Society of Mammalogists at Binghamton, New York, May 31-June 4; he continues as a member of the Society's Board of Directors and of the Resolutions Committee. Dr. Peterson and Ms. Eger represented the ROM at the first International Theriological Congress, June 6-12, in Moscow, U.S.S.R.

## Teaching and Lectures

As cross-appointed professors in the Department of Zoology, University of Toronto, Drs. Peterson and Tamsitt gave the course in mammalogy and served on supervising and examining committees for graduate students. In February Dr. Peterson talked about bats to the Metropolitan Toronto Zoological Society and Dr. Tamsitt lectured to students in the ROM Guard Training Programme. Dr. Fenton gave a lecture to the Erindale Biological Society, Toronto, in March. In April and May Mr. Borack gave night classes for high-school students.

## Collections and Acquisitions

Five bronze sculptures by Mr. Robert Glen, exhibited in the bronze gallery, were acquired by the Department. A mounted leopard from Kenya donated by Mr. W. Roy Kromer of Lyndhurst, Ohio, is now on display.

Research collections increased by 4,295 specimens (3,781 bats), and data from 1,500 specimens were integrated into the computerized storage and retrieval system this year. Storage of specimens, however, continues to be difficult because of lack of expansion space, a continuing problem confronting the Department.

## ROM Committee Service and Editorial Activities

Dr. Peterson served on the Board of Trustees—Staff Committee to review the tenure document and was staff representative on the Board of Trustees Property Committee. He also served as Chairman of the ROM Editorial Board for a second year and continued as Associate Editor—Mammalogy for the *Canadian Field-Naturalist*. Dr. Tamsitt completed his term as a member of the ROM Editorial Board in January. Both curators refereed numerous manuscripts submitted to scientific journals.

## Galleries

A programme to renovate the galleries commenced this year. New labels were prepared for many mounted specimens by Mr. Nagorsen, and a new bat and insectivore display is being designed.

## Extra-departmental Activities and Public Service

Dr. Peterson became Chairman of the Animal Care and Research Committee of the Metropolitan Toronto Zoological Society in July and continued to serve on the Board of Directors of the Toronto Anglers' and Hunters' Association. He also participated in several radio and television programmes, including "As It Happens" in September and "The Nature of Things" in October.





A rare specimen of the aye-aye, an endangered species of primate from the Malagasy Republic, restored by Mr. David Pepper and loaned by the Department of Mammalogy to the World Wildlife Fund (Canada) for exhibition at the Canadian National Sportsmen's Show, March 1974.

In March members of the Department participated in the annual Canadian National Sportsmen's Show, where bronze sculptures from the ROM were exhibited. The Department was host to students from the University of Montreal in November and to students from the University of Buffalo, New York, in April. Staff continued to answer queries and to identify specimens brought in by the public. As in previous years, numerous visiting scientists studied specimens in the research collections, and loans to researchers at other institutions continued to accelerate.

### Staff Notes

Dr. Tamsitt was appointed Curator in July. Ms. Donna Bunston continued as Department Secretary, and the Department welcomed Ms. Nancy Grepe as secretary. Ms. Sophie Poray provided illustrations for publication and prepared objects for display in the new Dinosaur Gallery. Mr. Alan Outram was hired as a Junior Technician. Mr. Jim Borack and Mr. Brian Herbert continued to process the new specimens that arrived during the year. Ms. Margaret Conrad and Mr. Keith Jackson provided able assistance during the summer of 1974, as did Ms. Marianne Collins during the summer of 1973.

## Department of Mineralogy

J.A. Mandarino, Curator

Dr. R. I. Gait was on sabbatical in the Republic of South Africa for most of the fiscal year. During this time he has collected in South Africa and has been associated with the Rand Afrikaans University in Johannesburg. During Dr. Gait's absence, Mr. B. D. Sturman assisted the Curator and Dr. Wicks in the normal curatorial duties. Miss Isobel Wolfson volunteered her services again during the summer months. Mr. Eric Bjarnason finished his second year of tutoring under Dr. Mandarino and Mr. Sturman. Miss Driver and Miss Robinson were enrolled in an evening course in mineralogy taught by Dr. D. H. Gorman of the Geology Department, University of Toronto. Mr. McKinnon completed night courses at Ryerson Polytechnic Institute—two in mathematics and two in electronics.

Dr. Mandarino, Dr. Wicks, and Mr. Sturman attended the annual meetings of the Geological Association of Canada and the Mineralogical Association of Canada in St. John's, Newfoundland. Dr. Wicks attended the Clay Minerals Conference in Banff and the Conference on Experimental Mineralogy, Petrology, and Economic Geology at McGill University. Dr. Wicks, Dr. Satterly, and Mr. Sturman attended the Prospectors and Developers Meeting in Toronto. Dr. Wicks was co-chairman of the Geochemistry and Diagenesis Session at the meeting of the Society of Economic Palaeontologists and Mineralogists in San Antonio, Texas.

### The Collections

Mrs. J. Galt registered over 800 specimens into the collections. Included were the following 32 species new to the ROM collections: ringwoodite, majorite, bannisterite, tugtupite, hydroxyl-ellestadite, derriksite, weibullite, laitakarite, schultenite, oosterboschite, trogtalite, sudburyite, wermlandite, palermoite, bjarebyite, schmitterite, moctezumite, cliffordite, poughite, akatoreite, wyllieite, pyrophanite, osarizawaite, söhngeite, schneiderhöhnite, ktenasite, isostannite, tulameenite, monteregianite, rhodium, pinchite, and mangan-alluaudite.

In addition to the new species, some of the more outstanding acquisitions are: several fine serandite crystals from St. Hilaire, Quebec; a suite of zeolite specimens from India; magnesite and montebrasite from Brazil; wulfenite and mimetite from Mexico; scapolite and actinolite from Ontario; milarite from Switzerland; and cuprite crystals from S.W. Africa.

Arrangements have been made with Dr. S.D. Scott of the Geology Department, University of Toronto, to have mineral specimens used in Ph.D. and M.Sc. theses sent to the Mineralogy Department as reference materials.

A significant addition to the reference collection was space. By double-stacking some of the cabinets a large work area was made available.

Exchanges were carried out with: Mr. Prosper J. Williams, Toronto; Mr. B. Dossick, Don Mills, Ontario; Mr. Erich



Winkler, Austria; Dr. Akira Kato and Mr. Yasuo Terashima, Japan; Capt. Pat Collins, Ottawa; Mr. Charles Key, St. Petersburg, Fla.; Mr. George Pawlick, Conservation, ROM; Dr. Richard V. Gaines, Pottstown, Pa.; Dr. Jiri Just, Kalgoorlie, West Australia; and Mr. Dennis Lea, Burlington, Ontario.

### **Service Activities and Lecturing**

One hundred and fifty-one specimens were identified for 66 members of the public, and many more for other ROM departments. Miss Helen Driver handled numerous telephone and written enquiries. About 30 specimens or parts of specimens were sent to researchers outside the ROM.

Members of the departmental staff were active in committee work. Dr. Mandarino served as Chairman of the Curatorial Salary Committee. Dr. Wicks is a member of the Grievance Committee and is Chairman of the Library Committee. The non-curatorial members have been involved in the newly formed Staff Association.

Dr. Mandarino gave talks at the Greater Detroit Gem and Mineral Show, the Cincinnati Gem and Mineral Show, and the annual banquet of the Canadian Micro Mineral Association. This last talk was given in collaboration with Mrs. V. Anderson, Research Associate. Dr. Mandarino also participated in a Canadian Museums Association seminar on design at Midland, Ontario. Mrs. V. Anderson spoke to several mineral clubs.

Dr. Wicks lectured on clay minerals in the ROM/University of Toronto Extension course "Ceramics for the Collector", and on serpentine minerals in a graduate seminar in the Geology Department of the University of Toronto.

### **Research**

Mr. Sturman and Dr. Mandarino continued to supply X-ray powder data to the Joint Committee on Powder Diffraction Standards. They also completed a study of the ahlfeldite-cobaltomenite series. Their description of a new mineral, pinchite, was approved by the International Mineralogical Association's Commission on New Minerals and Mineral



Don McKinnon operating Mettler thermo-analyzer.



Names. Papers dealing with both of these studies have been completed and are in press with the *Canadian Mineralogist*. Mr. Sturman developed an X-ray diffraction technique for identification of members of the Tourmaline Group. He has also been involved in the identification of members of the Feldspar Group by a combination of X-ray diffraction and optical methods. Dr. Wicks completed X-ray powder diffraction studies on the hydrous nickel silicates and continued work on serpentine minerals in Manitoba and Quebec. Mr. McKinnon and Dr. Wicks designed the lab and accessory glassware for the Mettler thermoanalyzer and are studying specimens from the ROM mineral collections. Students of Dr. S. D. Scott of the Geology Department, University of Toronto, have also been using the thermoanalyzer to study synthetic sulfide phases.

Over 700 X-ray powder diffraction patterns were produced by Mrs. C. Peat. Of these, about 130 were Guinier patterns representing three minerals on each film, and the rest were Debye-Scherrer patterns. In all, close to 1,000 minerals were X-rayed.

Through the courtesy of the Department of Geology, University of Toronto, Miss Susan Robinson was instructed in the use of the X-ray spectrograph for quantitative analysis of rocks. After certain modifications have been made to our equipment, she will be doing rock and mineral analyses for our department and for the ROM's Department of Geology.

Mr. Grassi again served as machinist and instrument-maker to the entire Museum. The fact that the mechanical and audio-visual devices in many of the ROM galleries have a high operating performance is due to Mr. Grassi's meticulous preventive maintenance.

Dr. Satterly, Research Associate, continued his updating of Ontario mineral locality data.

### Honours

Dr. Mandarino was elected to serve a second year as President of the Mineralogical Association of Canada. Dr. Wicks was elected Secretary of the Mineralogical Association of Canada and continued to serve as Editor of that association's newsletter. Julius Weber, Research Associate, received an honorary D.Sc. degree on June 2, 1974, from the State University of New Jersey, Jersey City, in recognition of his innovations in microscopy and scientific photography.

## Department of Ornithology

### J.C. Barlow, Curator

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Field work, research, and public service activities dominated the programme in the Ornithology Department in the past year. Our interest in developing our anatomical holdings continues. To this end our skeleton collection has again received special attention and in 1973-74 has burgeoned with archaeological material.

Our staff was essentially unchanged during the year, but we did welcome Ms. Donna Lea Frosch as secretary and Mr. James Colin Rice as cataloguer.

### Research and Publications

Staff members and students participated in a number of field trips varying from local ventures of a few days' duration to a two-month major expedition to southern Africa. Other important work on mynahs, House Sparrows, Savannah Sparrows, flycatchers, vireos, bananaquits, and oystercatchers was undertaken by a variety of staff members in Ontario, Europe, Texas, Arizona, Cayman Islands, Montserrat, Hawaii, New Zealand, and Alaska.

In the Museum Dr. Barlow and Dr. James completed a phenetic study of representative vireos aimed at showing the affinities of the large tropical shrike-vireos and peppershrikes. Quantitative studies of the evolutionary status of Ontario populations of the Traill's Flycatcher complex were continued by Dr. Barlow, Dr. James, and G. F. Shields. During the year Dr. Barlow published a major paper on the European Tree Sparrow, giving results of field and museum work completed several years earlier. Dr. Baker completed quantitative studies of the phenetics and of ecological and behavioural characters bearing on the systematics of New Zealand oystercatchers. He had four important papers on oystercatchers published in 1973-74. Dr. James examined geographic variation in songs of sympatric vireos and continued work with Dr. Barlow and P. L. McLaren on an annotated check-list of Ontario birds.

Departmental research associates also enjoyed a fruitful year of investigations. Dr. R. I. C. Hansell published several theoretical papers. Rev. R. C. Long continued his behavioural studies of the American Robin (*Turdus migratorius*) and published an important paper on the mammals of Malawi. Dr. J. D. Rising continued his quantitative studies of Savannah Sparrows and published papers on House Sparrows, Northern Orioles (*Icterus gabula* ssp.), and Black-capped Chickadees (*Parus atricapillus*). Dr. Savage identified avian bones from the Armstrong Site, Wisconsin (completed), and from a northern Saskatchewan site (completed). He also has been working on a bird fossil from mid-Eocene (50,000,000 BP) rock found near Smithers, B.C., which is the second oldest avian material from Canada. Dr. G. K. Peck, volunteer scientist, produced the tenth report of the Ontario Nest Records Scheme with the capable assistance of Mrs. P. Livingston.

### Public and Museum Service

Our technical staff again played a prominent role in service activities. Ross Harris (Technician I) introduced



bird lore to members of the Toronto Junior Field Naturalists monthly throughout the year; Michael McNall, Lloyston Ferguson (Technician II), and Glen Murphy (Senior Technician) led students and naturalist groups through our preparation laboratory and demonstrated to them the preparation of bird skins. Dr. Barlow conducted cub scouts and biology groups through the Department, and Drs. Baker and Rising again taught adult education courses on birds.

Dr. Barlow began a year's duties as Editor of ROM's Life Sciences publications and served on the ROM's Curatorial Promotion Committee. He also served on several committees for the American Ornithologists' Union and the Wilson Ornithological Society. Dr. Baker served as Secretary of the National Inventory Committee representing the Museum, and Dr. James was the Life Sciences representative on the Museum's Temporary Exhibition Committee. The entire staff helped in answering daily enquiries about birds received by phone and letters from the public. Throughout the year Dr. Baker counselled Museum staff and students extensively on statistical matters.

#### **Meetings and Grants**

University-related research and the activities of graduate students in conjunction with the Museum were supported

by parts of the first and second installments of a grant to Dr. Barlow from the National Research Council of Canada for studies of evolutionary rates in vireos and other birds. Dr. G. K. Peck and graduate student P. H. R. Stepney received grants from the Canadian National Sportsmen's Show in support of the Ontario Nest Records Scheme and the study of blackbirds (Icteridae), respectively. Dr. H. G. Savage received a grant from the Canada Council to study faunal material from the Yuquot site, Vancouver Island, B.C. The Ornithology Department shared with the Department of Invertebrate Palaeontology a grant from National Museums of Canada for the cataloguing of previously uncatalogued specimens.

Drs. Barlow, James, and Rising attended the 91st meeting of the American Ornithologists' Union at Provincetown, Mass., in October 1973, and Barlow and James jointly presented a paper entitled "Insights into the behaviour, ecology, and phenetics of the Highland Shrike-vireo". Dr. Barlow also attended the annual meeting of the Wilson Ornithological Society at the University of Michigan Biological Station at Douglas Lake, Michigan, in June 1974. Drs. Baker and Hansell attended the First International Congress of Evolution and Systematics at the University of Colorado in August, at which Dr. Hansell presented a paper entitled "Game theory models in evolution". In January Dr. Savage spoke on "Prehistoric



Hawk owl, photographed near Cochrane, Ontario.



# Department of Vertebrate Palaeontology

Gordon Edmund, Curator

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dinners" at the annual meeting of the Ottawa Valley Historical Society, and in March he gave a paper entitled "A domestic dog having a travois, sled, or pack use during the Archaic Period in southern Saskatchewan" at the annual meeting of the Canadian Archaeological Association at Whitehorse, Yukon Territory. Rev. Long spoke on birds to a number of youth and service groups throughout the year.

## Teaching Programmes

Dr. Barlow, in his capacity as Associate Professor of Zoology, University of Toronto, again taught Zoology 467/1020, a course in systematic ornithology in the Ornithology Department, making use of our extensive research collection for teaching purposes. He supervised the research of two M.Sc. and three Ph.D. candidates whose studies comprised Boreal Owl (*Aegolius funereus*) behaviour and ecology, shorebird (Scolopacidae) behaviour, interspecific territoriality in vireos, warbler (Parulidae) foraging ecology, and niche-utilization in blackbirds. Dr. Savage taught a graduate course in faunal archaeo-osteology in the Department of Anthropology, University of Toronto, and his students made extensive use of our skeleton collection. Dr. Rising supervised two M.Sc. and two Ph.D. candidates working on oriole nesting, Lark Bunting (*Calamospiza melanocorys*) behaviour, evolutionary rates in frogs, and chromosomes of juncos (*Junco* sp.).

The new Dinosaur Gallery was opened on Monday, March 11, 1974 by Dr. Gordon Parr, Deputy Minister for Colleges and Universities. The overwhelming success of the gallery is a reflection of the talent and dedication of the 60 people who worked on it, a sentiment expressed by the Director at a pre-opening lunch given in their honour. Public reaction to the new gallery has been very favourable, with over 12,000 visitors passing through on one particular day. The new audio-visual and display techniques have been especially successful.

The opening of the Dinosaur Gallery brought an end to the six-year exhibition programme. During those six years, research, field work, travel, and teaching were subordinated to display work, but we are now making the transition to a more evenly balanced programme of collecting, research, teaching, and special exhibits. A much-needed reorganization of laboratory and reference collection storage is being planned.

The three display technicians, Michael Bain, David Fisk, and Glen Spicer, hired for the duration of the work on the dinosaur displays, left at the end of March. Mr. Fisk was later re-hired to replace Technician Eugene Davis. Peter Biddlestone, Curatorial Assistant, returned to England after a year's enthusiastic work with the Department. The Department also lost Mrs. Lynda Spicer, Department Secretary, and Mrs. Janet Clarke, stenographer. We were fortunate in hiring Mrs. Jane Dack as Department Secretary and Miss Joanne Lindsay as cataloguer-technician. Mrs. Erica Wolff, supported by NRC grant A9550, was hired to assist Dr. McGowan.

## Field Work

Dr. Chris McGowan and Dr. C. S. Churcher, accompanied by Dr. A. M. Stalker of the Geological Survey of Canada and graduate students Brenda F. Beebe and Rosemary Johnson, visited several sites in Saskatchewan. Some plesiosaur remains were collected from the Bearpaw shales near Lake Diefenbaker. Dr. McGowan later collected ichthyosaur bones from the Fernie Limestone of southern Alberta, while Dr. Churcher, Miss Beebe, and Mrs. Johnson recovered mammalian microfossils from a Pleistocene site near Stewart Valley, Saskatchewan, and larger mammals near Medicine Hat, Alberta.

Dr. L. S. Russell, supported by NRC grant A2685, examined outcrops and collected fossils in the Lower Cretaceous Blairmore Group and related formations in Montana to aid in clarifying the relationships between these more-or-less contemporaneous rock groups. He also completed a manuscript on the Ravenscrag (Paleocene) fossils of Saskatchewan and resumed work on the second report on the Oligocene mammals of the Cypress Hills.

In the fall of 1973 Dr. McGowan visited the area near Morden, southwest of Winnipeg, where students were collecting marine Cretaceous reptiles. Arrangements were made to work with the same group during the



summer of 1974. By the end of June the six-man ROM team, with the generous assistance of the students from Morden, had recovered parts of the skeletons of several mosasaurs and plesiosaurs as part of our on-going programme to expand and diversify our collection of marine reptiles.

The joint High Eastern Arctic Expedition of the Carnegie Museum, Adelphi College, and the Royal Ontario Museum returned in August 1973. The results of the expedition were disappointing. Some of the area said to be terrestrial proved to be marine, and only a limited collection of fossil remains was obtained.

Other specimens were added to the general collection by purchase or exchange. These included a fine cast of an ichthyosaur with the skin impression, two partial ichthyosaur skulls, a partial Mastodon skeleton with four tusks, and a large miscellaneous collection from the Pleistocene of Florida. An arrangement to obtain replicas of Mongolian dinosaur specimens was negotiated with the Paleontological Institute at Warsaw, Poland.

### **Teaching, Travel, and Research**

Dr. Edmund gave Course GLG 426, (Advanced Vertebrate Paleontology) and continued his supervision of Ph.D. candidates Mark Wilson and Paul Ramaekers. Both students presented papers at the Hibbard Symposium,

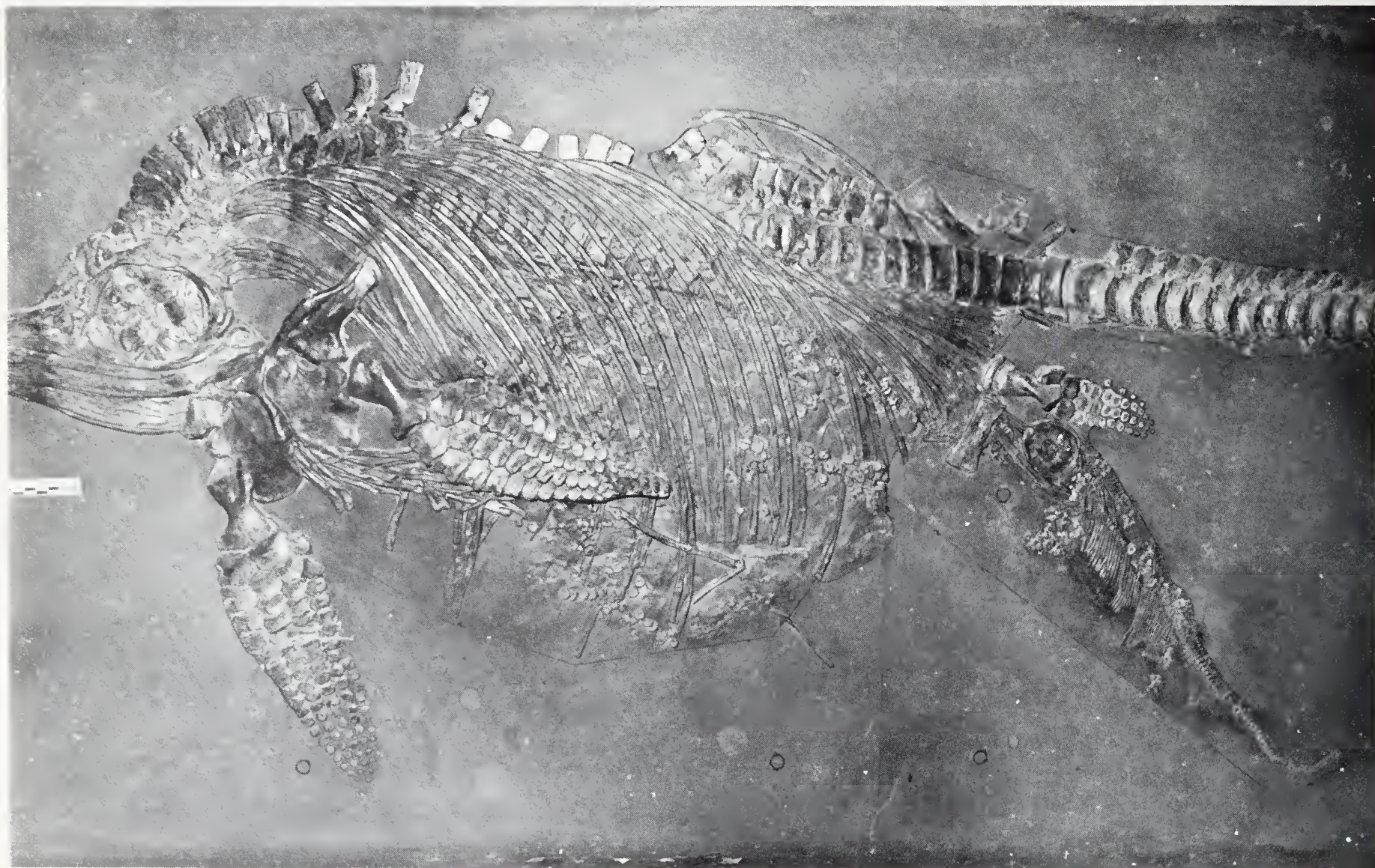
Ann Arbor, Michigan in April 1974, and Mr. Wilson later successfully defended his thesis on fossil fish from British Columbia at the Department of Geology, University of Toronto.

Dr. McGowan was course adviser for BIO 120 at the University of Toronto, participated with Drs. C. S. Churcher and T. S. Parsons in ZOO 464, and supervised Mrs. Rosemary Johnson, graduate student in the Department of Zoology.

Dr. L.S. Russell lectured in General Paleontology at Erindale College.

In November 1973 Dr. Edmund, Dr. L. S. Russell, and Mr. Peter Biddlestone attended the annual meeting of the Society of Vertebrate Paleontology in Dallas, Texas. Dr. Edmund and Dr. Churcher attended a symposium held in April 1974 in memory of Dr. Claude Hibbard at Ann Arbor, Michigan. Dr. Churcher read a paper on the fossil Giraffidae of Africa.

In late November and early December 1973 Dr. Churcher attended the IX Congress of the International Association for Quaternary Research at Christchurch, New Zealand, and took part in the ensuing field excursion in Australia and New Zealand.



The birth of an ichthyosaur. An event that occurred 180 million years ago is preserved for all time.



In March 1974 Dr. McGowan and Gordon Gyrmov spent three weeks in Europe, supported by NRC grant A9550, collecting data on ichthyosaurs. Thirteen collections were visited and 151 specimens were studied.

Dr. Churcher finished reviews of the fossil Equidae and Giraffidae of Africa and wrote papers on a new record of a giant giraffe from Swartkrans Cave, Transvaal, and on Post-Wisconsin ungulates from Cochrane, Calgary, Alberta.

Since submission of the last Annual Report, 400 vertebrate fossil specimens have been catalogued. Almost 4,000 have been identified and await cataloguing.

## Archives Department

### Margaret Walker, Archives Officer

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The Department is operating happily in its very comfortable, and at the moment adequate, quarters within the Planetarium Library. The location is ideal as it provides conditions necessary for the conservation of paper—a dust-free and climatically controlled atmosphere, without daylight.

The operational area has been divided into two. One part is enclosed and has steel shelving to house the material, which has been catalogued, restored where necessary, and arranged in acid-free boxes. This section is arranged to correspond with the operational structure of the Museum, i.e., Administration, Art and Archaeology, Science, and Service. The outer part of the area serves as an office.

#### Acquisitions

Historical records from the following departments have been received over the past year: Display Biology, Education, Egyptian, Entomology, European, Far Eastern, Geology, Library, Mineralogy, Photography, and the Programme Secretary.

The Department gratefully acknowledges valuable contributions from individual donors, specifically: Mr. C.F. E. Carpenter, Mrs. C. Heidenrich, Dr. H. A. Hunter, Mr. R. McCarroll, Mrs. O. D. Vaughan, and Mr. Wentworth Walker.

One unique contribution requires special mention. Last October, through the good offices of Mrs. H. J. Cody, Dr. and Mrs. Gordon White of Port Colborne presented to the Department medals, decorations, plaques, and certificates of commendation which had been bestowed upon Dr. White's father, the late Bishop William Charles White, during his lifetime. Many were awarded to the Bishop for his service to China, the country he loved and served for 40 years. The medals have now been placed in the Conservation Department for cleaning. The certificates are in process of being cleaned. When the conservation programme has been completed, all material will be safely stored and will be ready for private viewing, research, or exhibition.

#### Exhibition

On March 19, 1974, the Board of Trustees celebrated the 60th anniversary of the official opening of the first wing of the ROM to the general public and did honour to the Museum's founder Sir Edmund Walker, its first Board of Trustees, and its first five Directors. On that occasion a small exhibition entitled "Museum Memorabilia" was mounted, to which the Archives Department was able to contribute. The following evening 40 members of the Toronto Area Archivists Group met in the Museum and viewed the exhibition with interest.

#### Other Activities

A five-week course in paper conservation was undertaken by the Archives Officer during the early part of 1974. The techniques learned have now been put into practice for the benefit of the collection.



# Art Department (Display Biology)

## David Pepper, Artist-Craftsman



So far this year the records have been used as a research source by two historians, a sculptor, a student in architecture, and two students in community studies.

The photographic collection is growing. Twelve hundred prints have been matched to negatives and are in the process of being numbered. By the time this report is published 4" x 5" prints will have been identified, drymounted, and fixed in a permanent catalogue for research purposes. Mrs. Teresa Cromb, a student engaged for the summer is assisting in this work.

The two interesting photographs illustrated here are prints from two glass negatives discovered in the case containing the late Professor A. P. Coleman's camera. Judging by the dress the pictures must have been taken around 1895 and never developed. I recognize the late Professor Coleman in the upper one, but I should very much like to have the other people identified if possible. Can anyone help?

The changing of the title of Display Biology to "Art Department" in early 1974 heralded a new role for the Department. Our sole former function of designing and preparing Life Sciences exhibits, although a fascinating challenge in itself, stopped far short of the range of abilities to be found among our staff. The Department is now in a position to make a much greater use of the talents and experience of its members. For a long time there has been a need for a special group of artists which could serve all Museum departments, not only in gallery displays but also in publications, field work, public relations, and education. The expanded functions of the new Art Department should allow it to be of service to both Science and Archaeology departments throughout the ROM.

Although our staff is small at present, we are able to carry out such diverse tasks as scientific and graphic illustration, taxidermy, scale-model making, museum restorations and the making of replicas, mural painting, the reconstruction of scientific and archaeological material, fine lettering and calligraphy, illustrative photography, the production of artificial materials for exhibits, and the preparation of displays.

### Major Projects

Display Biology/Art Department has worked on several major projects in the last year in addition to our usual duties. Chief among these were the Spider show, for which we prepared elaborate illustrations and scale models, and the new Dinosaur Gallery. The latter, which took up most of our year, involved the planning and construction of much of the plant materials used in the exhibit as well as other display accessories.

The complete restoration of a rare specimen of the Madagascar Aye-Aye was one step in a series of new and renovated exhibits now under way in the Mammalogy galleries. Julian Mulock has prepared many fine scientific illustrations, chiefly for the Entomology Department, and the Art Department has carried on with its usual programme of lectures and demonstrations for student groups both in the Department of Museology and elsewhere.

### Special Event

In the special field of Japanese arms and armour, a number of lectures were conducted, including one at Queen's University in connection with their Fine Arts programme. David Pepper was requested by the Planning Committee of the Tōken Kai to act as Chairman for their 1974 Symposium in Los Angeles last June. This was a conference, exhibition, and formal judging of fine Japanese swords, metalwork, and related art forms, the most important such function ever held outside Japan. Hundreds of experts, students, and collectors gathered from Japan, Europe, and all parts of North America to participate. As a representative of the ROM, Mr. Pepper took with him several objects from the Far Eastern collections to be exhibited. He lectured on sword history





Sylvia Hahn, Julian Mulock, and David Pepper in the Art Department workshop.

and assisted in setting up the display, which featured some of the finest examples of Japanese artistry to be seen in North America.

## Book and Gift Shop

Patricia L. Dowton, Manager and Buyer

I am pleased to report that total sales for the four areas—Museum Shop, Mini Shop, Planetarium, and Christmas card booth—are up 24 per cent over last year's figures. This increase indicates that purchasing has been projected along the correct lines.

Three new sets of postcards are now on sale: one set from the Far Eastern Department, one from Ethnology, and one from Vertebrate Palaeontology. This last phrase spells "Dinosaurs"—a magic word to most children who visit the Museum. We sell more than 25,000 plastic models in the Mini Shop every year.

Besides postcards we have introduced four new figure reproductions. Three are from the Egyptian galleries: the god Thoth; The Cat, sacred to the goddess Bastet; and a priest's head. The fourth is the Han Horsehead. All have been produced in accordance with the high standards set by the curators.

Last year's Christmas cards were a great success, and many business firms and government departments were delighted to obtain our Canadiana material. This year we have chosen a detail from a tapestry, "Le Premier Péché", in the European gallery. Four scenes from a Chinese Scroll, "100 Beauties" were chosen for hasty-notes.

The choosing of any material to represent the Museum is a combined effort of a great many talented people. To thank everyone individually would take more space than is available, for curators, technicians, photographers, artists, and many others give freely of their time. We have been fortunate, also, in obtaining the services of some very talented Canadian artists, Vanessa Compton, Haakon Bakken, and Ruth and Paul Wilson, all of whom made such a success of the reproductions for the Chinese Exhibition and have now agreed to work on reproductions from our own galleries. Also, Raymond Gabriel, a Mohawk Indian from Quebec, has made, exclusively for the ROM, a handsome letter-opener in sterling silver with a model of a beaver mounted on the handle.

I wish to thank all the departments—Information Services, Accounting, Preparators, Carpenters, Display, and Registration—whose work behind the scenes has helped to make this year's sales operation such a success. I particularly wish to thank the Touring Committee for their assistance in promoting the shops. Lastly, I want to thank all my staff both past and present—in particular, Merrilyn Caldwell, my secretary, and Wing Jong, my stock clerk, who have been with me for the past four years.



# Display General Department

John Anthony, Chief Designer

The Display General Department is a creative design team capable of dealing with many tasks beyond those of pure display. It is constantly under pressure for renovations of permanent galleries and of office, study, and laboratory spaces, as well as for the mounting of temporary exhibitions.

## Exhibits

The past fiscal year has been an extremely active one. Using our own highly skilled carpenters and preparators along with outside contractors, the Department mounted some 31 different exhibits of varying size and complexity.

The first major exhibit of the year was "Punch and Other Puppets", a highly engaging show of interest to people of all ages and nationalities. Frequent live puppet productions added to the attraction of the show.

In the third-floor Chinese Galleries, we mounted a fine exhibition entitled "Indian Miniature Paintings from the Mughal and Deccani schools", which provided an excellent insight into the development of that specific art form.

We were fortunate this year to have a comprehensive collection of contemporary Canadian Indian art

assembled specifically for an exhibit at the ROM. The exhibit was set up in the newly renovated Exhibition Hall and included a continuous audio-visual presentation which helped set the mood for the art on display. The exhibit must certainly have been enlightening to many, as such a large and varied cross-section of Indian art has never been seen before.

Early in 1974 we started work on The Chinese Exhibition, a major travelling international exhibit of nearly 400 items recently discovered in China and now on tour in the West for the first time. The exhibit is due to open in August 1974 and holds promise of being ROM's largest and most spectacular exhibition to date.

Several graphic exhibitions were hung in the Lower Rotunda, including Jean Hart pond photographs, the California Condor, and Ryerson student photographs. An exhibition of antique toys called "A Children's World" attracted much interest from both adults and children.

In the third-floor Rotunda several exhibits caused much interest, such as "Along Came a Spider" with its live specimens, "Ultramobile", with its strange furniture designs, and "Toy Soldiers", a comprehensive collection that showed a great diversity of types and workmanship



A corner of the exhibition, "Canadian Indian Art '74"



and brought back memories to many former collectors.

Exhibits outside the Museum's walls continued at the Royal Bank and Yorkdale, and of course, in our own outside cases. This year for the first time we placed an exhibit of bronze animals at the Sportsmen's Show. This caused so much interest that we had to reprint the handout twice.

A third Museumobile was completed and put into service. This unit tells the story of the archaeology of Ontario.

### **Gallery Construction**

The main project this year was the opening of the east side of the Vertebrate Palaeontology gallery, which took place in early spring. The display, which is of an open nature and depicts the environment of the prehistoric animals, has been well received by the public. Information available in the gallery was greatly increased through the creation of a mini-theatre in which the public can learn about palaeontology, the animals, and the work that went on behind the scenes. Individual audio-visual labels provide further descriptions of the animals, their habitat and diet, the vegetation, and other matters of interest.

### **Building Renovation**

Another major project was the renovation of the interior of Exhibition Hall. The old structure inside the hall was only temporary and was easily removed. In its place we installed a new mezzanine floor with air-conditioning and new electrical systems. The renovated area is much more attractive and spacious than before and can be adapted to a great many more uses.

The coming fiscal year, with The Chinese Exhibition in prospect, holds much promise. It should provide us with the opportunity to do some much-needed revision in the Ethnology galleries.

## **Education Department**

### **Norma E. Heakes, Chairman**

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The year 1973-74 will be remembered in the annals of the Education Department as the Year of Change: new organization, new policies, and new projects. These all present a challenge to explore new fields in Museum education.

The Education Department, now Education Services, constitutes one arm of the Department of Education and Extension Services. Its general purpose is to serve better the needs of the people of the province at all age levels, whether individuals or groups, within the Museum or beyond. This involves "the co-operative utilization of the collective skills and knowledge of the three departments." (Directors' Memorandum No. 5)

Miss Betty Clark was transferred in April to Extension Services to be Extension Officer. She took with her the responsibility for the 16 travelling cases, which during the past 30 years have been studied by some three-quarters of a million people. For most of them the cases were their first contact with the ROM.

### **Experimental Programme**

A loan collection of 15 pictures, well mounted and suitable for library display, was sent to six Metropolitan Schools on an experimental basis. The subjects from the Art and Archaeology departments were objects of artistic and historic significance. Next year it is hoped that the collection will be more widely circulated by Extension Services.

This year one of our programmes was designed to prepare classes in Elgin County for a visit to the "Fossils of Ontario" Museumobile. The experiment was recorded in a joint report by Miss Alice Chrysler and Miss Nancy Gahm, which provides valuable guidelines for future mobile school services.

Mr. Riley Moynes visited Gloucester High School, Ottawa, to conduct a concentrated one-week programme on the Roman Empire. All seven Grade 11 history classes participated through the handling and discussion of authentic artifacts.

### **Programmes for Teachers**

The value of a visit to a Museum or a Museumobile is in direct proportion to the preparation for the trip. Education Services has a responsibility to assist teachers in the task. There are many ways of doing this.

Open House is an invitation to teachers to enjoy their Museum. This year's earlier date (September instead of February) meant that 1,100 guests were introduced to the teaching potentials of the galleries at the beginning of a school year. Many of those who subsequently brought classes to the Museum attended.

For practising teachers an in-service session of one or two days may be possible. North York teachers, librarians, and art teachers were participants in this type of programme during 1973-74.





Mrs. Dolores Torney conducting a class of elementary school children in the Egyptian Gallery.

Teachers-in-training have always been introduced to the Museum services. However, this year marks the beginning of a concerted effort to train potential teachers to use object-orientated techniques. In January 1974 the Faculty of Education of the University of Toronto recognized ROM's Education Services as an accredited practice teaching institution. Miss Nancy Gahm and Mr. Riley Moynes were appointed Associates of the Faculty and supervised six student teachers. Education Services has been asked to expand the programme next year.

Museum teachers also need refresher courses. The first September Teachers' Seminar was a very stimulating way to begin a school year. For four days curatorial staff and Education teachers (occasional and permanent) held discussion groups, lectures, and demonstrations covering many topics.

### **Student Attendance**

Students, the reason for so much teacher training, continue to flood the building. They always find special galleries interesting, and they often return on Saturdays, Sundays, and holidays without adults. During the past year the Government of Ontario subsidized school trips for Northern Ontario children, most of which included a visit to the ROM. By the end of June, 6,205 children, from Rainy River, Dryden, Geraldton, and other places will have registered. From the province as a whole, excluding Metropolitan Toronto, there have been 65,683 school visitors up to the end of May. This is an increase of 8,447

over last year to the same date. However, the number of pupils from Metropolitan Toronto has decreased by 24,623. This decrease may be explained by the financial situation of May 1, 1973. At that time the School Boards of Metropolitan Toronto, because of spending ceilings imposed by the Ministry of Education, were forced to terminate the grant system of financial aid. To counteract the loss of approximately \$60,000 and two seconded teachers, a new structure was drawn up. The admission charge is now 50¢ per student for classes receiving instruction and 25¢ per student if no instruction is given by ROM teachers.

### **Other Programmes**

Mention should be made of groups other than school classes which offer a challenge to those who meet them. Mrs. Patricia Isetta set up programmes for groups from Saint Jerome's College, University of Guelph, Humber College of Applied Arts and Technology, and the University of Buffalo interested in "Museum Theory and Practice". Miss Mary Fitz-Gibbon again conducted sessions at the Queen Street Mental Health Centre, thus providing a valuable therapeutic service to that community. She also participated in the Credit Valley History series of lectures given at the Streetsville Library, and in series at the Mississauga Central Library and at Erindale United Church.

The Saturday Morning Club continues to be a creative organization. Mrs. Harriet Liebmann is to be complimented upon the success of her first year as Supervisor. Activities designed to give children a chance to experience the objects in a meaningful way presuppose excellent adult leadership. We are indeed grateful to the gifted and dedicated people who helped make the Club a vital experience in the lives of 320 registered members.

### **Conferences and Committees**

Museum education is of international interest. Whenever possible, staff members attend conferences which put them in touch with their colleagues. Mr. Riley Moynes as newly appointed Vice-Chairman of the Department was able to extend his knowledge of museums on a number of occasions. He shared his ideas at an Education Conference in the Milwaukee Public Museum sponsored by the American Association of Museums and was able to meet educators from across Canada at the Conference of Canadian Museum Educators in Ottawa.

Mrs. Patricia Isetta continued as a member of the Training Committee on the Ontario Museum Association, while Miss Norma Heakes gave leadership at two workshops on education sponsored by the Training Committee at Brampton and Niagara-on-the-Lake.

### **Staff Changes**

The last part of a report often receives less attention than it should. It is here that we give a formal welcome to all who joined us since the last report. It is here, too, that we thank all those who have assisted the permanent teaching staff



# Film Library and Archives

David Young, Chairman,  
Visitor Services Development

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in carrying on the activities of the year. The occasional teachers bring to the position much knowledge and many skills. The office staff under Mrs. Georgette Frampton control the mechanics of scheduling in a most efficient way. The volunteer Meeters and Greeters welcome the classes as they enter the Museum. The entire Museum staff assist the Education staff in many ways. A warm thank-you to all.

We also bid farewell. For more than 20 years there has been a core of permanent teachers who have contributed in their own style to the work of the Education Department. It now seems that each June we say farewell to at least one of them. This year Miss Mary Fitz-Gibbon is retiring after 24 years of Museum teaching. Miss Fitz-Gibbon's interest in people has endeared her to many; her academic background in Fine Arts meant that her knowledge covered a broad spectrum, a knowledge which she shared with colleagues and students. Our best wishes go with her and with Miss Betty Clark who has already started her work as Extension Officer.

The Film Library and Archives continued to provide the Museum with 16mm motion-picture film and video-tapes, in the ½" and ¾" format, of subjects of particular Museum interest but not normally available from commercial distribution sources. Holdings in the Film Library and Archives are not for loan to public or commercial organizations. However, groups with special interests have been able to arrange film showings at the Museum.

Progress was made during the year in the effective use of the Portapak video equipment. The Members' Committee and the Education and Museology departments used the equipment to record their performance in guided tours and their teaching techniques. Record tapes of special events were also made. We have begun to organize a video-tape exchange with other Canadian museums that are recording their educational projects and programmes. The participating museum furnishes the Film Library and Archives with its tapes for duplication, and these are then made available to other museums.

Three different series of film showings were presented by the Film Library and Archives in the Museum theatre during the fall, winter, and spring months. Two series were shown on Sundays, and the NFB Showcase on Wednesdays.

## Sunday Film Showings

The Sunday film showings this year were changed in format and intent. A new series described as Family Film Programmes, designed for children and parents, proved quite popular. The ROM exhibits provided with the programmes were particularly effective. For example, for films dealing with underwater archaeology, a special exhibit was mounted in cases in the Lower Rotunda at the entrance of the theatre. David Pepper provided a short slide lecture on Japanese weaponry to supplement the films *The Art of the Swordsmith* and *The Living Arts of Japan*. Silent films, such as *Iron Horse* (1924), were accompanied on the piano by Charles Hofmann, who created the scores in styles authentic to the period of the films.

The fact that two Sunday film programmes were being offered by the Museum resulted in somewhat lower attendance in the evenings. However, such attractions as *Henry V* and *The Hellstrom Chronicle* drew embarrassingly large audiences. *The Hellstrom Chronicle* programme proved to be an important innovation. After the film Dr. Glenn Wiggins chaired a panel discussion in masterly fashion. He and his able collaborators added a new dimension to the programme, which was a high point of the Film Library and Archives year. Dr. Wiggins was assisted by Dr. R. J. Pointing, Dr. Bruce Falls of the University of Toronto, and Dr. Charles L. Hogue, Curator of the Department of Entomology, Los Angeles County Museum, California, who had served as technical consultant on the film itself. Mr. Les Allan of All-World Cinema should be thanked for his generous gift to the ROM that made this unique programme possible.



# Information Services

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This year found the staff of Information Services active in many fields: publishing, advertising, promotion and publicity, filling book orders and photo requests, even helping to organize a bus tour.

In preparation for the opening of The Chinese Exhibition in August 1974, Alex MacDonald became involved in the preliminary planning of promotional and advertising programmes early in the autumn of 1973. Although a great deal of his time was devoted to this matter during the latter half of the fiscal year, he continued to handle and supervise the various departmental projects, including the discussions with the T.T.C. about setting up the newsstand in the Museum subway station as a display area for ROM objects.

## Publications

The bulk of the book production during the past year has been in the established scholarly series. In the Life Sciences series, seven Contributions, four Occasional Papers, and four Miscellaneous Publications have been produced. Productions in the Art and Archaeology field comprise six Monographs—three in the Archaeology series, two in the History, Technology and Art series, and one in Ethnography—one Occasional Paper, and one Paper.

Meanwhile, work has been going ahead on a number of books for our "general" list, some of which are due to be published in the very near future. Among these is a stunning two-volume boxed set, containing 30 colour plates and 400 monochromatic reproductions, and constituting a complete catalogue of *Canadian Watercolours and Drawings in the Royal Ontario Museum* compiled by Mary Allodi of the Canadiana Department. This is one of the most ambitious publishing projects yet undertaken by the Museum and was made possible by a generous grant from Xerox of Canada Limited. We hope that their example will prove an inspiration to others.

*Rotunda*, which is now in its seventh year, took on a slightly new look with the publication of the Winter 1974 issue. The sale of ROM's books was 28 per cent greater than in the preceding year. More than 2,600 book orders were processed through Information Services during 1973-74.

## Reproductions

Twenty-four new full-colour postcards—three series of eight each from the Far Eastern, Ethnology, and Vertebrate Palaeontology departments—were completed. Three anonymous 19th-century Canadian watercolours were reproduced in colour on the covers of one set of Christmas cards, and a section from the unique tapestry "Le premier péché" will appear on a new Christmas card this year. Four new sets of hasti-notes showing items from the ROM's collections, two in colour, two in brown tones, were produced. The third ROM replica, an Egyptian priest's head, was also put on sale during the year.

## Promotion, Publicity, Photo Requests

Perhaps the most noticeable change in this area was the appearance of *ROM* in November 1973. This new bulletin was designed to incorporate the Chairman's Newsletter and Preview into one package for Members, while providing space for special announcements. In addition, *ROM* carries an inside view of the activities of various Museum departments. The Preview section continues to be available to Museum visitors.

A somewhat different project was undertaken by Information Services this year when a day trip to the Detroit Institute of Arts to view the special exhibition of Egyptian art from the Amarna period was offered. The trip proved most successful, with 115 people participating. However, because of space limitations, not all applications could be accepted. It became apparent that this type of programme is greatly appreciated, and we hope that more such trips can be planned for the future.

The combination of posters, newspaper and magazine ads, press releases, and personal contacts with the media continued to prove effective in gaining attendance at Museum events. In addition, a number of regular items continue to appear: planetarium brochures, film programmes, exhibition posters, and other printed material.

One hundred and fifty-two photograph permission forms were issued from the Department, covering 413 black-and-white prints, colour transparencies, and slides for reproduction in publications and films of various kinds. Many complimentary and publicity photos were also sent out during the year.

## Staff Changes

The public relations needs of the ROM have continued to grow. To meet these needs Mr. Denis Brown was engaged to take office as Public Relations Manager from July 1, 1974, to replace Mr. Alex MacDonald, who left in June. Mr. Brown and the Information Services staff will seek to implement new programmes to spread the story of the ROM throughout Ontario and Canada, and internationally. Among other staff changes, Mrs. Olive Koyama, Publications Editor, left in April, and Mr. John Campsie joined the Department in May and became responsible for the ROM's publishing programme.

Effective public relations and publications programmes depend to a very great extent on the cooperation of other Museum departments. To all who helped us to achieve our varied objectives we extend our gratitude.



# Library

Judith P. Morgan, Head Librarian

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The ROM Library has this year undergone a change of direction. Thanks to the support of a particularly active and enlightened Library Committee, chaired by Dr. F.J. Wicks of the Mineralogy Department, we are beginning to emerge from the difficulties of past years, caused by increasingly heavy demands being placed on an already overstrained system. The following are some of the highlights of the past year.

## Collections Development

Our prime purchase was the *Catalogue of the Library of the Peabody Museum of Archaeology and Ethnology*. It is a most important tool and will be used in locating bibliographic data for book orders, in cataloguing, and in reference service. The catalogue fills a big gap in our resources.

The collection of general reference books has been weeded and updated, with a view to providing more rapid and accurate response to telephone and general quick-reference requests.

Under Miss Eve Dowie's supervision, the map collection was put in order. Our policy is to provide a collection, for practical use, of recent Canadian topographic and geologic sheets of various scales. Miss Joan Winearls, Map Librarian of the University of Toronto, has graciously agreed to continue to provide reference service covering other areas. We are already much in her debt.

The exchange mailing of life sciences publications has been doubled this year. We hope to reap the benefits of the expanded programme in the coming year. The exchange programme of the art and archaeology monographic series is currently under review. With the help of the Art and Archaeology Editorial Committee we shall work to extend the programme and to improve its quality.

## Technical Services

Our activities in this area during 1973-74 have been aimed at gaining control over incoming literature. Acquisition records of periodicals and exchange material received have improved considerably and will continue to do so, as we add an automatic claiming procedure and other features to tighten control.

Our cataloguing methods are undergoing examination with a view to modernizing and streamlining. Authority files are being established. Greater use of unit catalogue cards is giving us more control over the collection, as will better series entries and improved descriptive cataloguing practices.

Special cataloguing projects accomplished include a listing of our manuscript collection by Mrs. Marian Press, for which we are most grateful. Manuscripts by Charles Fothergill, James Henry Fleming, John W. Kerr, and Frederick W. Kerr are the collection's most notable components.

Approximately 40 per cent of the Fleming Ornithology Library has been recatalogued by Mrs. Lorri Kushnir.

## Readers' Services

This is, of course, our main area of concern. Improvement will depend, in part, upon the rate of our progress in establishing more accurate records in the technical services section.

This year we have updated our curators' interest profiles. With the use of these profiles, the selective dissemination of information, through the scanning of periodicals and notification of recent publications, is much improved. Next year we hope to add additional alerting and routing services, especially for current science information. Our goals include development of reference service in depth, compilation of bibliographies on request, and an overall improvement in relations with our readers.

## Branches

The Planetarium Library has made progress this year, with Miss Sharon Hick as Library Assistant. Reorganization of vertical-file material and re-evaluation of periodical subscriptions have been completed.

The Canadiana Library is concentrating on collection development and has made plans for improvement of subject entries and cross-references.

## Special Events

Miss Eve Dowie was Local Arrangements Chairman for the Museums, Art, and Humanities Division of the Special Libraries Association during its Annual Conference, held here, June 9-13. The Conference had not previously been held in Toronto since the early '50s. We were delighted with its success, owed in part to Miss Dowie's able and dedicated effort.

## Staff

We were very sorry to lose Mrs. Marian Press, our Assistant Librarian—Art and Archaeology, who is travelling extensively in Europe before returning home to New Zealand. In Mrs. Press's place we have welcomed Mrs. Patricia Houston, an accomplished cataloguer who has had much experience with rare books.

It has been for us a year of many changes. We look forward to enjoying the benefits of those changes and to greater advances and progress in the coming year.



# Museology Department

W. Hewitt Bayley, Chairman

The Museology Department is now in its fifth year of operation in conjunction with the School of Graduate Studies, University of Toronto. Applications for enrolment are still well in excess of 100, despite the fact that several other institutions, such as Algonquin College and Queen's University, have mounted museum training programmes. The seventh class of 15 students represents such academic disciplines as Astronomy, Anthropology, History of Art, East Asian Studies, History, and Geography. The majority of the enrolment this year is from Canadian colleges and universities.

The course curriculum continued an emphasis on interpretative skills in writing and in the public presentation of Museum collections and programmes. The curatorial departments again provided invaluable support, supplying the students with a working knowledge of most museum disciplines. Department heads were also able to give the students an understanding of museum administrative procedures, including such matters as registration, charter analysis, contract law, finance, and staff relations. An addition to the practical work of the course initiated during the year was the design and building of travelling exhibits. Scholarly information and tertiary quality materials were furnished by five curatorial departments. The five exhibits were developed around an archaeology theme and the construction, under the direction of John Hillen and Frances Brittain, was carried out at the new Museology Conservation Training Centre at 79 Scollard Street.

The Museology Conservation Training Centre became operational in March 1974. This facility, approximately 2,000 square feet on the first floor of an industrial building, has been designed and equipped under the direction of Bernard Leech, Associate Curator-in-charge of the Conservation Department. It will provide an excellent training facility for museology students. The purpose of the conservation training component of the museology course is to give the student an intensive experience with the methods and materials of conservation, not to produce conservators.

The internship programme this year is similar to that of previous years, with students applying their training abroad and in Canada. The majority of students worked in museums and on historic sites in Ontario. Others interned in the Vatican Museum in Rome, the Israel Museum in Jerusalem, the Victoria and Albert Museum and Sotheby's in London, and the Ironbridge Gorge Museum Trust in England.

We have been extremely fortunate in placing our students in jobs. Of the 55 students who have attended the course there are only three not working in museums and five who are not at present employed.

The Museology Department Newsletter has now reached Volume II, No. 2. This communication links all the



Students of the Museology Department making travelling cases under the direction of John Hillen.

Department's students together, listing their current addresses and posts and giving accounts of their projects. The questionnaire soliciting this information has had 100 per cent response. From time to time book reviews of museological interest are submitted. This very successful project was originated by Mrs. Jo Cruise, who organizes and produces the Newsletter quarterly in addition to her many other duties as Museology Department Secretary.



# Photography Department

L.R. Warren, Head Photographer

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The Photography Department had its usual busy year. Hundreds of photographs were needed by the Far Eastern Department for the coming Chinese Exhibition; and the Ethnology Department requested almost 2,000 black-and-white photographs of African artifacts for Dr. Z. V. Volavkova's book. The success of the Department is due to the many skills of its members, to their team work, and to the cheerful and diligent manner in which they have performed their varied duties.

## New Galleries

Mr. Bill Robertson spent almost three months in the new Dinosaur Gallery producing some 2,000 colour slides for the various audio-visual presentations and numerous black-and-white photographs for publicity.

## Post Cards

Twenty-four new colour postcards were produced for three departments; Far Eastern, Ethnology, and Vertebrate Palaeontology.

## Exhibitions

Over 100 colour plates and several hundred 35mm colour slides were taken in Calgary and Montreal for a book entitled *Animals in Art*, which will accompany an exhibition of the same name to be held in the ROM in October 1975. The untiring efforts, skill, and enthusiasm of Peter Buerschaper and Terry Shortt ensure that both the book and the exhibition will be outstanding successes.

# Programme Secretary

Helen M. Downie

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During the year special programmes continued to expand and attract ever larger and more enthusiastic audiences. Planning is necessarily long-range in the museum field and this is nowhere better illustrated than by the in-depth preparations for The Chinese Exhibition, which continued through the year along with the day-to-day work on this year's activities. There is growing recognition of the need for interpretative programmes to stimulate, entertain, and most of all provide an exciting educational experience.

## Major Exhibitions

"Cut My Cote . . .", an exhibition of traditionally cut garments organized by the ROM Textile Department and mentioned in last year's report, continued to be so well received that it was extended three weeks to the end of September.

Held at Christmas time, "Punch and Other Puppets" was the result of a happy collaboration between the Ontario Puppetry Association, the McGill University Rare Book Library, and the ROM. Puppets through the years provided a panorama of delightful variety and fantasy that appealed to young and old alike. Animating the event, a series of free puppet shows was presented in the theatre to enthusiastic school and general audiences.

In addition to its regular programme of special exhibitions from the collections, the Sigmund Samuel Canadiana Gallery hosted in February and March an unusual exhibition of Canadian folk art circulated by the National Gallery. "People's Art: Naive Art in Canada" featured a variety of practical and decorative items created by ordinary people in the past, which touched a responsive chord in modern viewers.

Despite the fact that the newly renovated Exhibition Hall was not completed in time to house it, "Indian Miniature Paintings of the Mughal and Deccani Schools" made an impressive temporary addition to the Far Eastern galleries. The delicacy and detail of these representative works from the collection of Edwin Binney 3rd were much admired at a crowded Members' opening in April.

A highlight of the exhibition programme, opening in June, was "Canadian Indian Art '74", a fine collection of contemporary art and craft selected from across the country. Made possible by the generosity of the Department of Indian Affairs and Northern Development and by the cooperation of the Canadian Guild of Crafts, the exhibition was timed to coincide with the World Craft Council meetings in Toronto. A special tribute must be paid to Mr. Tom Hill of Indian Affairs who worked with the ROM Ethnology Department for nearly a year in preparing the exhibition. The exhibition was opened by the Honourable Jean Chrétien, Minister of Indian Affairs. Indian singers and dancers participated in special supplementary programmes, and the exhibition itself attracted large and interested audiences even after construction in the Armour Court for The Chinese Exhibition made access to Exhibition Hall awkward.



### Third-Floor Rotunda

Mainly three-dimensional material is featured in this area, and exhibitions relating to Museum collections were presented by organizations and groups from Toronto and elsewhere. In addition, one special exhibition was created by a ROM Science department ("Along Came a Spider . . .") and one by an Art and Archaeology department ("Canadian Antiques") as part of a continuing programme to highlight aspects of research and acquisition.

### Lower Rotunda

Because of large crowds in the area the emphasis here is on hanging exhibitions, and many attractive shows documented the activities of man and the wonders of nature. Artifacts were incorporated into the design of two exhibitions marking significant anniversaries.

Our Honorary Curator of Philately, Mr. Douglas Patrick, again prepared a series of varied exhibitions of special interest for the Stamp Corner, which attracted layman and expert alike.

Although the Children's Gallery is no longer an official temporary exhibit area, it was used on two occasions this year to mount exhibitions for children.

### Galleries

Both the Canadiana and the Textile departments continued to feature material from their collections in temporary gallery exhibitions. The Canadiana Gallery also houses circulating exhibitions, such as this year's popular "People's Art", when feasible.

The McLaughlin Planetarium exhibition programme inaugurated by "Lunar Transformations" continues with a display of paintings by Jon Lomberg entitled "The Artist and the Universe".

### Lectures and Concerts

Lectures are becoming increasingly popular, even the ROM theatre proving too small on occasion to accommodate the growing crowds. The fall series organized by Dr. P. Storck, "Between the Unknown and the Misunderstood: Archaeology of Man's Past and His Imagined Past", featured ROM staff members dealing with the myths and realities of history. In the spring experts from across North America provided insights into the world of oceanography in a series coordinated by Dr. A. Emery.

Many other lectures were available to the ROM's public, including ROM Spot Lectures by visiting scholars and also open meetings of such organizations as the Archaeological Institute of America and the Society for the Study of Egyptian Antiquities.

Music is playing an increasingly large part in our programme and has proved highly popular. Starting in the summer with "Music of the World" presented by Charles Hofmann, the concert programme also included a fall



Alanis Obomsawin performing traditional Indian songs at the opening of "Canadian Indian Art '74".

series "Music in the Museum", arranged by Fred Stone. In the spring "History of Popular Music—Jazz Series 1974" was produced by Paul Grosney with the support of the Music Performance Trust Fund. In concert at Christmas we presented The Crescent School Boys' Choir and the Concord Singers.

Of a more specialized nature, a series of poetry readings, "Other Voices", was prepared by John Robert Colombo and presented by poets writing in Canada's unofficial languages. The Canada Council generously supported this series.



## Special Events

A wide variety of special events was held during the year for Members, ranging from the well-attended Members' openings to bus trips and special evening gallery parties at the Planetarium and the Canadiana Gallery organized by the Members' Committee.

Particularly popular with the children were the lively puppet shows and, above all, the newly opened Dinosaur Gallery. The new gallery was opened by Dr. J. Gordon Parr, Deputy Minister, Ministry of Colleges and Universities.

The 60th anniversary of the opening of the Museum building was celebrated with a small reception and a special exhibition of "Museum Memorabilia".

As always, the facilities of the ROM were used for conferences and meetings organized both by the Museum and by other institutions.

A Calendar of Events for the year appears on page 65.

## Membership

Categories were reviewed this year and arrangements made whereby accumulated gifts and outstanding generosity have been appropriately recognized. The cost of service to Members has steadily increased to a point where it was reluctantly decided that membership dues had to be increased. This has of course been reflected by a slight drop in membership, although the new Members have kept it relatively stable. The assistance of the Museum Volunteers in selling memberships is recognized and greatly appreciated.

Memberships	1973	1974
Annual Individual	3,184	3,072
Annual Family	948	726
Life	802	928
Fellow		29
Benefactor	29	46
Endowment	5	11
Patron	16	20
Honorary Life	33	37
	5,017	4,869



Actor Donald Davis dons his mask from the Stratford production of *Oedipus Rex* at the opening of "Punch and Other Puppets".



# Visitor Services Development

David Young, Chairman

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Considerable growth and change have marked the past year of operation of the Department of Visitor Services Development. In addition to maintaining our services to visitors to the Museum, we have in the past year begun to expand our activities throughout the province. Because of our emphasis on both intramural and extramural extension, the Department has been renamed Extension Services, and next year our annual report will be under that heading.

## Extension Courses

We offered eight courses last year, four in cooperation with the University of Toronto, as part of our continuing education programme. These are non-credit courses open to everyone regardless of academic background. "Archaeology in New China" was planned to be an introduction to "The Exhibition of Archaeological Finds of the People's Republic of China" to enhance the visitor's appreciation and enjoyment of this major Chinese Exhibition.

The Canadiana Department's course, "Canadian Antiques for the Collector", has gained great popularity with the public: last year more than 160 people registered for the course. "Exploration of the Universe", given by Dr. Henry King, Curator of the McLaughlin Planetarium, also continues to attract large numbers each year. Other popular courses by the Planetarium staff include "Introduction to Observing", which covers the selection and use of binoculars and small telescopes, and "Introducing Astronomy", an introduction to basic ideas about the Earth, Sun, Moon, planets, stars, and star systems.

Bernard Leech, Associate Curator-in-charge of Conservation, presented "Ceramics for the Collector" in the Conservation Laboratory. Canadian handweaving, fashionable and ethnographical costume, and Oriental fabrics and rugs were some of the subjects considered in "Looking at Textiles", presented in the galleries by members of the Textile Department. Mrs. Neda Leipen, Curator of the Greek and Roman Department, and her staff conducted a course titled "Creations in Clay".

## Orientation

The guard training programme, instituted last year, was continued this year, and another ten guards will now be seen wearing the crest marked ROM INFORMATION. This six-week course is designed to prepare our security guards to improve their service to our visiting public.

## Film Programmes

A new programme of Sunday Family Films was introduced last year. It was designed to bring enjoyment and insight into the collections of the ROM to both children and adults. As in previous years, our Department cooperated with the Film Library and Archives in all film programming—Sunday and Wednesday evening films as well as the Family Film Programme.

## Youth Programmes

Mr. Harold Vanstone organized programmes for both the Youth Club and the Senior Citizens Club during the past year. The Youth Club was engaged in a wide variety of activities. One group, working with Julian Mulock of the ROM's Art Department, produced a colour film with sound track on the theme "A Night in the Royal Ontario Museum". Other groups were engaged in such activities as dissection in mammalogy and ornithology, conservation and archaeological techniques, rock polishing, and museum interpretation.

During the year the Department sponsored two Opportunities for Youth Programmes. Janet Ellard, Sally Johnson, Jane Carter, and Beth Brewer, four high-school students, offered a summer programme for children from 7 to 12 years of age. One hundred and sixty children took advantage of this opportunity to learn about the Museum by engaging in arts and crafts and a variety of other activities.

Four high-school students of Native origin were assisted in a very ambitious Opportunities for Youth project. They learned a great deal about the complexity of Museum operations after speaking to preparators, conservators, curators, and educators, and carried the message to Native peoples in all the Friendship Centres of the province, also bringing back valuable information concerning the interests of Native peoples in travelling exhibits.

## Senior Citizens Club

From October to May this group was engaged in a number of areas of study, including the native peoples of North America, South America, Australia, New Guinea, Polynesia, and Africa. As part of their programme some members of the club made presentations both to their fellow members and also to outside institutions such as the Second Mile Club. One of their meetings was recorded by Miss Kathy Wismer of CBC-TV for the programme, "New Directions". As a result of this coverage on television, there was an influx of new members into the club, which now numbers 86.

Without exception, everyone who has assisted in this programme has been impressed by the enthusiasm and enjoyment of this group who are so keenly interested in learning for the sake of learning.

## Travelling Exhibits

Last year our travelling entomology exhibit was much in demand and was located in branches of the Toronto, North York, and Etobicoke library systems. Supported by book displays in the libraries, this exhibit was appreciated by children and adults alike.

The two Museumobiles, "Fossils of Ontario" and "Man in Ontario", have been circulating widely through the province, visiting schools, museums, libraries, fairs, and festivals. During Senior Citizen Week in June we visited a



number of homes and found the reception to be so favourable that we can foresee this becoming a regular practice.

In this first year of the Museumobile operation, we explored a variety of means to increase the effectiveness of the programme, using brochures and films to support the exhibits. Our experience has shown beyond doubt that effective support materials and experienced, approachable resource personnel are vital to the success of the operation. In one such experiment, two members of the ROM Education Department, Miss A. Chrysler and Miss N. Gahm, visited schools in advance of the Museumobile, giving talks and demonstrations illustrated with a variety of audio-visual materials and with sample specimens.

The two Museumobiles visited a great number of locations across the province. They participated in a number of Festival Ontario programmes at Sault Ste. Marie, Owen Sound, Guelph, and Kingston, and are in continuing demand for this programme.

The "Fossils of Ontario" Museumobile was first scheduled in June of last year and the "Man in Ontario" Museumobile in September. By June 30, 1974, total attendance for these two exhibits was 91,671.

### **Lecturing and Special Group Activities**

Last year our Department again conducted the art history programme for first-year students of Interior Design at Ryerson Polytechnical Institute. We gave spot lectures for adult groups in the galleries, arranged for the author of *Mary Poppins* to address the Saturday Morning Club, and prepared a Museum session for "Sensory City '74". We also addressed the Museum Volunteers and Study Group and participated in the Museology Programme.

The Department also selected films to supplement the programmes of various groups studying in the Museum and recorded a number of Museum events on video-tape.

### **Staff Notes**

The Head of the Department has continued to serve on the Council of the Ontario Museum Association and was appointed to a newly instituted Advisory Committee on Museum Affairs for the province. Mrs. Judy Soden has continued her duties as secretary for the Department; among her responsibilities is the compilation of Museum attendance statistics. Last year Mr. Vanstone was elected Vice-President of the Museum's Staff Association.

## **Members' Committee**

### **Bette Anne Smith, Chairman**

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Last September we began work with 90 active members and 13 sustainers for a total of 103 members. The work of the Members' Committee can be broken down roughly into three main categories: touring, placements, and projects.

### **Touring**

The work of the Touring Committee is done by 38 active tourers and four administrative assistants. Regular tours take place daily from Monday to Friday at 12:15 and 2:00 p.m., and each Wednesday at 12:15 p.m. at Canadiana. This schedule continues from Labour Day until the end of June. In July and August tours are given on weekdays at 2:00 p.m.

The Touring Committee also provides tours of special exhibitions. In 1973-74 they have toured such exhibitions as "Cut My Cote", "Punch and Other Puppets", the Mughal Miniature Collection, Flat Woven Rugs, "Harvest '73", and "Made in Canada". Another of the committee's activities is the provision, on request, of tours for special groups. This is an activity that is expanding remarkably. In 1970-71 we had 28 requests. This year 149 special groups were looked after.

The Canadiana section of the Touring Committee has met with outstanding success in providing two series of eight tours covering such subjects as "About Time" (clocks) and "The French Connection" (French influence on Canadian furniture). Through their efforts attendance has more than doubled in a year.

### **Placement**

The placement Chairman's report covers the activities of 48 members of the committee. As in the past, many of our members have assisted curators, this year in 15 departments, where their jobs have been various, from helping the Department of Vertebrate Palaeontology wash 50-pound bags of muddy sand and mice teeth in the chilly waters of Lake Ontario, to cutting out hundreds of tiny leaves to provide foliage for trees for the new Dinosaur Gallery.

One of our members has spent the winter helping to reorganize the Egyptian Department's slide and card system. Another, in Invertebrate Palaeontology, has been searching for conodonts, bone-like fossils of tiny animals that existed in great numbers in Palaeozoic times. Searching for them in a laboratory involves picking them out from finely ground rock through a microscope, using one hair in a moistened paintbrush. In Entomology, another member has become an expert in water mites, common inhabitants of ponds but probably unfamiliar to most of us. A Spanish-speaking member was able to put her linguistic ability to good use in the Department of Ethnology, where she assisted Dr. Fuchs in the preparation of a bibliography on South American Indians.



Some curatorial jobs are exciting, others are more prosaic, but the continuing requests from curators for volunteers—for next year we already have more requests than we are likely to be able to fill—make it apparent that even the least of them is worthwhile.

### **Projects**

The Project Committee began its year with a Members' evening in the Planetarium in the hope—a vain one, as it turned out—of tracing the comet Kohoutek. The party, under the able leadership of Mrs. H. M. Turner, Jr., proved a great success even if Kohoutek did not!

In November we travelled to Winterthur Museum in Wilmington to study American Decorative Arts. Under the direction of Mrs. John Weir, a Valentine party—early Canadian style—was held in February to highlight the Canadiana Gallery.

The Project Committee has also been busy with period arrangements of dried flowers throughout the Museum. Its talented members have created appropriate flower arrangements in some of the rooms, and for some of the opening nights.

Of all the projects perhaps the most publicly obvious is ROMart, which took place on May 24 and 25 in front of the Planetarium. Always a popular event with the students, this year's ROMart, under the guidance of Mrs. C. Wansborough, was blessed with excellent weather and fine student art.

### **Other Activities**

Sixty-five ROM Members, men and women, are Museum Volunteers. The Volunteers' year began with a series of orientation meetings in the fall. Their major job is manning the Museum Information Desk, every day that the building is open, for a total of more than 2,000 hours a year. They have also distributed circulars on Bloor Street for the Touring Committee, assisted in making bookings for school groups attending "Punch and Other Puppets" shows, and provided ushers for the 27 performances of the puppet shows in the Christmas holidays.

The Study Group has had a new and vastly successful format this year. Organized four years ago so that those in curatorial placement could expand their horizons and learn more about the Museum in general, the group embarked on a mini-museology course, during which they learned how to look at a museum object and what to look for. The course was given partly through films, but a most important part consisted of talks by curators and of visits to their galleries and workrooms.

The Chairman has attended monthly Board of Trustees meetings as an observer. This is the second year of our participation. We are grateful for the opportunity of establishing this type of communication and find this invaluable in formulating plans for the Members' Committee.

Two delegates and two observers attended the Volunteer Committee of Art Museums Convention in Baltimore this year. Their visit provided a worthwhile interchange of ideas and an excellent opportunity to learn about other North American museums and art galleries.

During this year the Members' Committee voted an expenditure of \$150.00 on a table covering for the Textile Department in memory of Mr. Harold Burnham. We have spent \$50.00 in materials for dried flower arrangements in the ROM. The Committee has also approved the giving of a new screen for the theatre.

It has always been our pleasure to adjust our activities to serve the immediate needs of the Museum. At the moment most of our thoughts are directed to the forthcoming Chinese Exhibition. We have planned with the Museum how we, as volunteers, can help during this most exciting time. We will man volunteer desks, tour visitors, and help with the school children.

It has been my pleasure as Chairman to take a small part in these plans and I am very grateful for the opportunity.



# Auditors' Report

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To the Trustees of the Royal Ontario Museum:

We have examined the balance sheet of The Royal Ontario Museum as at June 30, 1974 and the statement of financial operations for the year then ended. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances, except as noted in the following paragraph.

Bequests, grants and donations to trust accounts, by their nature, are not susceptible of complete audit verification. Accordingly our verification of receipts from these sources was limited to a comparison of recorded receipts with bank deposits.

In our opinion, except for the effect of any adjustments which might have been required had we been able to completely verify bequests, grants and donations, the accompanying financial statements present fairly the financial position of the Museum as at June 30, 1974 and the results of its operations for the year then ended, in accordance with accounting principles generally accepted for non-profit organizations applied on a basis consistent with that of the preceding year.

Toronto, Canada,  
September 26, 1974



Clarkson, Gordon & Co.,  
Chartered Accountants



# The Royal Ontario Museum

(Incorporated by Special Act of the Ontario Legislature as  
a corporation without share capital)

## Balance Sheet

### June 30, 1974

(with comparative figures as at June 30, 1973)

	1974	1973
<b>Assets</b>		
<b>Operating:</b>		
Cash		\$ 80,036
Short-term investments	\$ 241,101	187,934
Travel advances	50,764	48,866
Accounts receivable	58,292	42,485
Due from Chinese Exhibition Council of the Royal Ontario Museum	102,688	
Inventories at the lower of cost and realizable value	107,289	78,866
Fixed at nominal value—		
Land and buildings	1	1
Contents	1	1
	560,136	438,189
<b>Trust:</b>		
Short-term investments	1,513,399	840,066
Marketable securities at cost— (quoted market value—\$1,638,000; 1973—\$2,106,000)	1,798,649	2,127,668
Accrued interest	43,011	40,725
	3,355,059	3,008,459
	<b>\$3,915,195</b>	<b>\$3,446,648</b>
<b>Liabilities and Trust Funds</b>		
<b>Operating:</b>		
Bank indebtedness	\$ 10,769	
Accounts payable and accrued liabilities	219,952	\$ 216,253
General reserve	329,415	221,926
	560,136	438,179
<b>Trust funds</b>	3,355,059	3,008,469
	<b>\$3,915,195</b>	<b>\$3,446,648</b>

On behalf of the Board:

Trustee: G. D. Wotherspoon

Trustee: W. R. S. Seyffert



# The Royal Ontario Museum

## Statement of Financial Operations

### Year Ended June 30, 1974

(with comparative figures for the year ended June 30, 1973)

	1974			1973
	Operating	Trust	Total	Total
<b>Receipts:</b>				
<b>Operating:</b>				
Province of Ontario grants	\$4,840,000		\$4,840,000	\$4,400,000
Board of Education	53,399		53,399	49,596
Admission fees	217,102		217,102	198,307
Museology fees and grants	43,879		43,879	53,737
Service departments (net)	67,674		67,674	52,383
Other	6,619		6,619	5,783
<b>Trust:</b>				
Bequests, grants and donations		\$ 506,115	506,115	563,820
Investment income		238,781	238,781	204,061
Membership fees:				
Annual		87,197	87,197	71,442
Life		26,120	26,120	7,560
Admission fees		53,687	53,687	50,450
Other		169,919	169,919	82,673
Total receipts	5,228,673	1,081,819	6,310,492	5,739,812
<b>Disbursements:</b>				
Artifacts and specimens	97,500	82,069	179,569	227,169
Building maintenance	302,668	13,466	316,134	417,202
Equipment	109,448	64,863	174,311	269,635
Supplies	157,507	43,277	200,784	177,906
Excavations	131,545	52,357	183,902	93,142
Gallery renovations	2,984	110,313	113,297	131,306
Contingencies	14,544		14,544	29,418
Services	159,138	920	160,058	148,511
Travel, expeditions	72,145	17,142	89,287	112,271
Exhibitions (net)	29,908	43,529	73,437	134,766
Books and periodicals	61,340	281	61,621	58,040
Publications (net)	70,672	5,999	76,671	26,160
Advertising and publicity	66,000	8,659	74,659	86,714
Other	83,543	120,445	203,988	113,124
Salaries and wages	3,762,242	171,909	3,934,151	3,458,657
Total disbursements	5,121,184	735,229	5,856,413	5,484,021
Excess of receipts over disbursements for the year	107,489	346,590	454,079	255,791
Balance of general reserve and trust funds, beginning of year	221,926	3,008,469	3,230,395	2,974,604
Balance of general reserve and trust funds, end of year	\$ 329,415	\$3,355,059	\$3,684,474	\$3,230,395



# Museum Attendance

July 1, 1973—June 30, 1974

<b>Main Building</b>	
Paid attendance	212,280
Museum functions	7,271
Evening 5:00—9:00 p.m.	117,021
Non-paid attendance	345,056
School classes	135,567
Other groups (inc. rentals)	10,077
<b>Total Main Buildings</b>	<b>827,272</b>
<b>Planetarium</b>	
Public shows	146,751
Shows for school classes	69,911
Other groups (& Star Theatre)	3,401
Visitors to display & lecture room	21,307
<b>Total Planetarium</b>	<b>241,370</b>
<b>Canadiana</b>	
Visitors	27,350
School classes	6,973
Miscellaneous	2,778
<b>Total Canadiana</b>	<b>37,101</b>
<b>Grand Total</b>	<b>1,105,743</b>

## Comparative Total Attendance

1966-67	1967-68	1968-69	1969-70
743,100	836,257	1,369,034	1,330,804
1970-71	1971-72	1972-73	1973-74
1,266,648	1,372,929	1,164,243	1,105,743

# School Attendance

July 1, 1973—June 30, 1974

<b>Metro</b>	
Conducted classes	31,826
Unconducted classes	25,289
<b>Total</b>	<b>57,115</b>
<b>Provincial</b>	
Conducted classes	48,694
Unconducted classes	29,781
<b>Total</b>	<b>78,475</b>
<b>Community Colleges</b>	
<b>Total</b>	<b>5,004</b>
<b>Universities</b>	
Conducted classes	172
Unconducted classes	728
<b>Total</b>	<b>900</b>
<b>Miscellaneous</b>	
<b>Total</b>	<b>8,966</b>
<b>Canadiana</b>	
Conducted classes	4,227
Unconducted classes	3,001
<b>Total</b>	<b>7,228</b>
<b>Grand Total</b>	
July 1973 to June 1974	157,688



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# Calendar of Events 1973/74

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## Major Exhibitions

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**1973**

**to September 23, Exhibition Hall**

**"Cut My Cote . . ."**

The exhibition organized by ROM's Textile Department emphasized traditional ways of cutting and constructing clothing and was accompanied by an interpretative book by Dorothy K. Burnham.

**December 4–January 13, Exhibition Hall**

**Punch and Other Puppets**

Including string, shadow, glove, and rod puppets from around the world, the exhibition was designed to show the diversity of this ancient yet modern theatre art. Puppets were lent by the Ontario Puppetry Association and the McGill University Rare Book Library. Special puppet shows for children accompanied the exhibition.

**1974**

**February 1–March 10, Canadiana Gallery**

**People's Art: Naive Art in Canada**

A major exhibition of oils, watercolours, sculptures, and a variety of Primitive, Naive, Folk, and Popular Scene in Canada was circulated by the National Gallery in Ottawa and designed to show several aspects of the diversity of Canadian life.

**April 9–May 5, Far Eastern Galleries**

**Indian Miniature Paintings of the Mughal and Deccani Schools**

The fine drawing and delicate colour of these paintings were more pleasing to the Western eye than earlier Indian work when first recognized by Europeans in the 18th century. All styles and periods of Mughal and Deccani miniature paintings were represented in this exhibition from the collection of Edwin Binney 3rd circulated by the Portland Art Museum.

**June 4–July 14, Exhibition Hall**

**Canadian Indian Art '74**

A fine collection of traditional-contemporary art and crafts created by Indian artists across Canada in the past two years. The exhibition was designed to compare and contrast the traditional art form with contemporary expression; to explore form, colour, space, and linear development; and to look at the Indian artist's intimate relationship with Nature. The exhibition was the result of the cooperative efforts of the Royal Ontario Museum, the Canadian Government Department of Indian Affairs and Northern Development, and the Canadian Guild of Crafts and coincided with the meeting in Toronto of the World Craft Council.

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## Third Floor Rotunda

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**1973**

**July 30–September 9**

**Mechatoskumwuk**

The title of this exhibition of drawings of Indian life by Toronto artist Jim Lumbers is a Swampy Cree word meaning "there are many tracks". Documenting life in the harsh environment of the Canadian north, the artist's aim is to foster greater understanding between our Native peoples and non-Indians.

**September 18–October 14**

**Along Came a Spider . . .**

The exhibition provided an intimate view of the lives of these fascinating and feared creatures and revealed information learned in a recent ROM study of spiders found in Toronto homes.

**October 23–November 25**

**Ultramobile**

Assembled in Italy, this was a unique collection of art that can be used as furniture, designed by well known European artists.

**November 28–January 13**

**Wildlife Paintings by Gary Low**

Watercolours and acrylic paintings based on observations of animals in their natural habitat and study of ROM's collections.

**1974**

**February 5–March 10**

**Canadian Antiques**

Early Canadian decorative arts: treen, glass, graphics, pottery, furniture and silver from the Canadiana collections.

**March 29–April 24**

**One Hundred Years of Oceanography**

Charts, models, written and graphic material outlined the science of oceanography and Canada's role from the HMS Challenger expedition (1872-74) to the present. Circulated by the Nova Scotia Museum as part of the National Museums' programme.

**May 11–26**

**Toy Soldiers and Military Miniatures**

Organized by the Ontario Model Soldier Society, the exhibition included toy soldiers and sophisticated miniatures that portray life from ancient times to today.

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## Lower Rotunda

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**1973**

**June 30–July 26**

**Père Ubu**

A sequel to Alfred Jarry's Ubu saga was written in 1922 by



Ambroise Vollard and illustrated by George Rouault. This National Gallery exhibit consisted of etchings and enlarged reproductions of the 1922 text.

### **July 31–September 4**

#### **Lalibela**

An exhibition of photographs from the Smithsonian Institution showing the extraordinary beauty of the New Jerusalem in Northern Ethiopia, a complex of churches and chapels hewn from rock during the reign of the 12th-century Emperor Lalibela.

### **October 2–28**

#### **Photographs of a New Guinea People**

A selection of colour photographs documenting the dominance of art in the lives of the Kilege people circulated by the Smithsonian Institution.

### **November 2–December 2**

#### **The Pond**

A selection of photographs by Jean F. Hart which reflect the life and tranquility of the pond with particular reference to the frog.

### **December 5–January 6**

#### **Saturday Morning Club**

Artwork and constructions created by children of ROM's Saturday Morning Club during the fall sessions.

## **1974**

### **January 10–February 17**

#### **Images d'une France**

Colour prints by French photographer André Martin provided a glimpse of the natural beauty and life in rural France. Lent by the Kodak Company.

### **March 16–24**

#### **Museum Memorabilia**

An exhibition in honour of Sir Edmund Walker, the first Chairman, and members of the first Board of the Museum, marking the 60th anniversary of the official opening of the ROM building (March 19, 1914). A selection of gifts to the Museum by these people and by "Friends of the Arts", as well as photographs and related material illustrating the Museum's beginnings and continuing growth.

### **March 26–April 21**

#### **Ryerson: A Community of Photographers**

Photographs, photo silk screens, and etchings by students and faculty of Ryerson Polytechnical Institute.

### **April 27–May 20**

#### **A Children's World**

One hundred toys reflecting many commonplace but often forgotten aspects of North American life in the past. Circulated by the Smithsonian Institution.

### **May 23–June 23**

#### **Frontier College 75th Anniversary**

An exhibition of photographs and letters marking the 75th anniversary of Frontier College and documenting early adult education programmes for workers in isolated camps and training for immigrants making Canada their home.

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## **Stamps**

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## **1973**

### **July 15–August 31**

Stamps from Latvia displayed by Victor Spielbergs reflected the history of Latvia from 1800 to 1945.

### **September 5–October 15**

Shown were selected pages of Local Stamps of Israel.

### **October 16–December 1**

Handstruck legislative postmarks of Canada before 1900 were featured.

### **December 1–January 15**

A two-part exhibition of Canadian Booklet Stamps (Part 1).

## **1974**

### **January 15–February 28**

Part 1 of Canadian Booklet Stamps was displayed.

### **March 1–April 15**

Early engraved issues of Great Britain—1840 and subsequent years.

### **April 15–May 31**

A collection of selected pages from the Strudley Gift Collection of Great Britain.

### **June 3–September 2**

On view were selected pages from the Douglas Duncan gift collection of France.

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## **Textile Gallery**

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## **1973**

### **July 9–October 8**

#### **19th-Century Lace**

The exhibition contained costume accessories or pieces of all the characteristic laces of the century from bobbin and needle lace to embroidered net and tape lace, also knitted and crocheted lace.

### **October 15–January 6**

#### **Kilim—Soumak—Cicim**

#### **Flat Woven Rugs from West Asia and the Balkans**

A selection of rugs mainly from the 19th and early 20th centuries and costumes showing the influences of rug weaving.



## 1974

### January 11–March 31

#### Harvest '73

Items acquired by the Textile Department during 1973 including a special group of Canadian textiles in memory of Harold B. Burnham presented through the generosity of his friends.

### April 6–July 28

#### Made in Canada

The many facets of textile arts as they were practised in the earlier days of Canada assembled to coincide with the World Craft Council meetings in Toronto.

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## Canadiana Gallery

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## 1973

### to September 15

#### Prints of Canada after Kriehoff

Marking the 100th anniversary of the painter's death, a major exhibition was prepared by the McCord Museum of lithograph drawings made between 1848 and 1862 after Kriehoff paintings of Canadian scenery.

### September 19–December 9

#### Art of the Illustrator

A display of work by some British and Canadian artists as book illustrators including vignette illustrations of maps, newspaper illustrations from 1842 forward, illustrated diaries of explorers, and Indian costumes and customs.

### December 12–January 27

#### Winter Scenes in Early Canada

Oil paintings and watercolours that provided a glimpse of life in the winter during the 19th century.

## 1974

### March 15–June 16

#### Paul Kane's Canadian West

Pencil and wash sketches by Kane of the life and ways of Western Indians, as well as landscapes and portraits in oil by Paul Kane and George Catlin.

### June 19–September 15

#### Niagara: "This Wonderful Downfall"

Views of the falls of Niagara in oil, watercolour, and engraving from 1638 to the later 19th century, including the work of Father Hennepin, Thomas Davies, J.P. Cockburn, James Duncan, and Major Henry Davis. Related books and diaries augmented the display.

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## Miscellaneous Exhibitions

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## 1973

### to August 31, McLaughlin Planetarium

#### Lunar Transformations

Artistic interpretations of lunar landscapes developed from photographs taken by Apollo 15.

### November 13–January 6, Children's Gallery

#### Children of the Ark

Photographs of young animals born in captivity, taken by Norman Hatton to illustrate the book by Barbara Solandt.

## 1974

### March 5–25, Children's Gallery

#### Saturday Morning Club

Artwork and projects by children of ROM's Saturday Morning Club made during the winter sessions.

### June 25–September 29, McLaughlin Planetarium

#### The Artist and the Universe: Paintings by Jon Lomberg

An exhibition of surrealistic scientific art by Toronto artist Jon Lomberg who has worked with scientists involved in space exploration and the attempt to contact intelligent beings on other planets.

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## Lectures

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## 1973

Between the Unknown and the Misunderstood:  
The Archaeology of Man's Past and His Imagined Past  
Held in the ROM Theatre at 8 p.m.

Thursdays. Free admission.

Organized by Dr. P. Storck.

Lecturers all associated with the ROM.

### October 11

"Did Man Make Himself?"—Dr. Tom Clarke, Dr. Peter Storck

Attendance—440

### October 18

"Science Fiction on the Rocks"

(Some Pictographic Perspectives on the Chariots of the Gods Fantasy)—Mr. Selwyn Dewdney

Attendance—465

### October 25

"Transpacific Contacts"—Professor W.M. Hurley

Attendance—350

### November 1

"Camelot and King Arthur's Britain"—Mr. Francis Pryor

Attendance—525



**November 8**

"The How and Why of Egyptian Pyramids"—

Dr. Nicholas Millet

Attendance—600

**November 15**

"The Bible as History"—Dr. A.D. Tushingham

Attendance—450

**1974****Oceanography Series**

Held in the ROM Theatre at 8:30 p.m.

Thursdays. Free admission.

Organized by Dr. A. Emery

**January 31**

"Origins of Oceans and Continental Drift"

Dr. Michael Keen, Assistant Dean of Arts and Sciences,  
Dalhousie University, Halifax

Attendance—450

**February 7**

"Oil on Troubled Waters: Petroleum or Protein"

Dr. David Scarratt, Research Scientist, Fisheries Research  
Station, St. Andrews, N.B.

Attendance—350

**February 14**

"Living and Working Underwater with Coral Reef  
Fishes and Plants"

Dr. Sylvia A. Earle, Research Associate, Los Angeles  
County Museum of Natural History

Attendance—425

**February 21**

"The Case Against Continental Drift"

Dr. A.A. Meyerhoff, The American Association of  
Petroleum Geologists, Tulsa, Oklahoma

Attendance—475

**February 28**

"Heat Transport and Climatic Change in Arctic and  
Sub-arctic Seas"

Dr. M.J. Dunbar, Marine Sciences Centre, McGill University,  
Montreal

Attendance—275

**March 7**

"A Decade of Underwater Archaeology in the  
Mediterranean Sea"

Dr. D. Owen, The University Museum, University of  
Pennsylvania, Philadelphia

Attendance—375

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**Miscellaneous Lectures**

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**1973****September 19**

"French Furniture, Louis XIII to Louis XVIII"

Sir Francis Watson

sponsored by Symposium 1973

Held in the ROM Theatre at 8:30 p.m.

**October 10**

"Dinosaurs, Rulers of the Mesozoic"

Dr. S.P. Welles, University of California

Held in the Planetarium Lecture Room

Attendance—100

**October 11**

"Fifty Years of Copying at Thebes, Egypt"

Professor John A. Wilson, University of Chicago

sponsored by the Society for the Study of Egyptian  
Antiquities

Held in the Planetarium Lecture Room at 8:30 p.m.

**November 14**

"The Role of Museums in Environmental Education"

Professor Geoffrey Stansfield, Department of Museum  
Studies, University of Leicester

Held in the Planetarium Lecture Room at 8:30 p.m.

Attendance—24

**November 15**

"Excavations at the Palace Harbour of Malkata,  
Western Thebes"

Dr. David O'Connor, University of Pennsylvania

sponsored by the Society for the Study of  
Egyptian Antiquities

Held in the Planetarium Lecture Room at 8:30 p.m.

**November 21**

"Stools, Linguist Staff and Figures"

Saka Acquaye, African artist

co-sponsored by the African Ensemble, Inc.

Held in the Planetarium Lecture Room at 8:30 p.m.

Attendance—18

**November 28**

"Kente Weaving and Colour Symbolism"

Saka Acquaye, African artist

co-sponsored by the African Ensemble, Inc.

Held in the Planetarium Lecture Room at 8:30 p.m.

Attendance—25

**1974****January 17**

"The Dead Sea Scrolls"

John Marco Allegro

co-sponsored by the University of Toronto

Held in the ROM Theatre at 8:30 p.m.

Attendance—450



**January 31**

“Recent Discoveries in the Athenian Agora: 1970-73”

Professor Homer Thompson

co-sponsored by the University of Toronto

Held in the Planetarium Lecture Room at 8 p.m.

Attendance—125

**March 14**

“Cultural Interchange between Greece and Ancient Egypt”

Professor R.J. Williams, Department of Near Eastern Studies, University of Toronto

sponsored by the Society for the Study of Egyptian Antiquities

Held in the Planetarium Lecture Room at 8:30 p.m.

**March 21**

“The Alhambra, Palace or Myth”

Dr. O. Grabar, Harvard University

co-sponsored by the University of Toronto.

Held in the ROM Theatre at 8 p.m.

Attendance—300

**March 28**

“Hebrew University Current Excavations near Athienou, Cyprus”

Amnon Ben-tor, Hebrew University, Jerusalem

co-sponsored by the University of Toronto

Held in the Planetarium Lecture Room at 4:30 p.m.

**April 24**

“The Sanchi Torso”

John Irwin, Victoria and Albert Museum, London

Held in the Planetarium Lecture Room at 8:30 p.m.

Attendance—75

**1973–74**

Archaeological Institute of America Lectures held generally on Thursdays at 4:30 p.m. in the Planetarium Lecture Room

**October 18**

“The Excavations of Caesarea”

Robert J. Bull, Drew University

**November 6**

“Ancient Bronzes of Iran”

Roger Moorey, Ashmolean Museum, Oxford University

**January 17**

“Reconstructing Louisburg: What Goes on Behind the Scenes”

Charles S. Lindsay, National and Historic Parks and Sites Branch, Department of Indian and Northern Affairs, Ottawa

**February 14**

“The Decipherment of Meroitic (or the Egyptologist as Linguistic Detective)”

Nicholas Millet, ROM Egyptian Department

**March 7**

“Art and History in Roman Relief Sculpture”

Gerhard M. Koepfel, University of North Carolina

**April 4**

“Painted Animals from Gordion”

G. Kenneth Sams, University of North Carolina

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**Concerts**

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**1973**

Music of the World by Charles Hofmann

Held in Room 4 on Tuesday at 7:30 p.m. Free admission.

**July 10**

“Peoples of the Pueblo”

Attendance—100

**July 24**

“Indians of Mexico, Past and Present”

Attendance—135

**August 7**

“Africa South of the Sahara”

Attendance—140

**August 21**

“Music of the Orient”

Attendance—135

**September 11**

“Songs of the Eskimos”

Attendance—70

**September 26**

“Australian Aboriginal Music”

Attendance—110

Music in the Museum

Held in the Bishop White Gallery on Wednesdays at 5:30 p.m. Free admission. Coordinated by Fred Stone.

**October 3**

The Fred Stone Orchestra

Attendance—180

**October 10**

The Paul Brodie Saxophone Quartet

Attendance—160

**October 17**

Mark Stone

Attendance—175

**October 24**

Muthulakshmi Ranganathan

Attendance—140

**October 31**

Ronald Taylor

Attendance—200

**November 7**

The Toronto Brass Quintet

Attendance—175



## Christmas Music

Presented from Main Rotunda balcony from 12:30-1:30 p.m. Courtesy of ROM Members

### **December 17 and 19**

Crescent School Boys' Choir

### **December 18 and 20**

Concord Singers

## 1974

### History of Popular Music—Jazz Series 1974

Produced by Paul Grosney with the support of the Music Performance Trust Fund of the Toronto Musicians Association and the Museum Members. Held in the Bishop White Gallery on Tuesdays at 5:30 p.m. Free admission.

#### **April 2**

"History of Jazz" by the Carol Britto Group

Attendance—150

#### **April 9**

"The Story of Ragtime" by the John Arpin Trio

Attendance—250

#### **April 16**

"Dixieland Jazz" by the Henry Cuesta Band

Attendance—300

#### **April 23**

"Mainstream Jazz" by the Norman Amadio Sextet

Attendance—300

#### **April 30**

"Bebop" by the Herb Spanier Quintet

Attendance—275

#### **May 7**

"The Blues" by the Bernie Senensky Group

Attendance—275

#### **May 14**

"Contemporary Jazz" by the Ted Moses Quintet

Attendance—300

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## Readings

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## 1974

### Other Voices

Poetry readings in Canada's unofficial languages accompanied by an English translation. Held in the Bishop White Gallery on Wednesdays at 5:30 p.m. Free. Introduced by John Robert Colombo.

#### **March 6**

Walter Bauer—in German

Attendance—65

#### **March 13**

Waclaw Iwaniuk—in Polish

Attendance—27

#### **March 20**

Robert Zend—in Hungarian

Attendance—45

#### **March 27**

Ludwig Zeller—in Spanish

Attendance—75

## April 3

George Faludi—in Hungarian

Attendance—60

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## Films

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## 1973–74

### **October 14–March 17**

#### Family Films

Shown on Sundays at 2:30 p.m. in the ROM Theatre.

### **October 14–March 17**

#### Sunday Evening Films

Shown at 7 p.m. in the ROM Theatre.

### **September 26–March 27**

#### ROM Presents NFB

Shown on Wednesdays at 7:15 p.m. in the ROM Theatre.

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## ROM Special Events

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## 1973

### **July 16**

The Toronto Junior Board of Trade held a dinner prior to a showing in the Star Theatre attended by 175 people.

### **September 19–22**

Symposium 1973 "The Golden Age of France and England and Their Influence on Early Canada" under the patronage of the MacDonald Stewart Foundation—160 delegates attended sessions in the Planetarium Lecture Room, a public lecture and reception in the ROM and a special evening at the Sigmund Samuel Canadiana Gallery.

### **September 24**

Over 1,100 elementary and secondary school teachers were guests of the ROM's Education Department in an evening designed to familiarize educators with facilities of the institution.

### **October 9–11**

A Conservation Conference was jointly sponsored by the Canadian group of the International Institute for Conservation and the Canadian Association of Professional Art Conservators with the support of the Royal Ontario Museum. Seventy delegates took part in lecture and laboratory sessions with a special reception in the Bishop White Gallery.

### **November 14**

Recent new members were invited to a tour and coffee party in the Dinosaur Den organized by the Members' Committee. Fifty people attended.

### **November 19**

"Kohoutek"—The Members' Committee organized a successful party at the McLaughlin Planetarium including a Star Theatre presentation of "The Comet Connection". A full house of 350 people purchased tickets at \$5.00.



**December 3**

Well-known actor Donald Davis opened the exhibition “Punch and Other Puppets” with 1,250 members on hand.

**December 6**

A private Symposium “Ancient Art and Artists” was held for members of the Archaeological Institute of America.

**December 17**

The annual ROM staff Christmas party was held in the Armour Court attended by 250 people.

**December 27–January 12**

Free puppet shows were held in the ROM Theatre to coincide with the exhibition “Punch and Other Puppets”. Over 10,000 children enthusiastically applauded performances by the Frog Print Theatre, the Lampoon Puppettheatre, Patchwork Puppets, Puppets Fantoccini, Friendly Puppet People, and Canadian Puppet Festivals.

**1974****January 16**

The ROM Board of Trustees entertained 75 senior staff members at a reception in the Dinosaur Den.

**January 22**

A small tea involving 30 people was held at the Sigmund Samuel Canadiana Gallery to mark the dedication of a sofa donated to the gallery through the generosity of the Imperial Order of the Daughters of the Empire, Municipal Chapter of Toronto.

**January 31**

The opening of the exhibition “People’s Art: Naive Art in Canada” at the Sigmund Samuel Canadiana Gallery was attended by 220 life members. Mr. J.D. McCullough, Assistant Deputy Minister, Ministry of Colleges and Universities, officiated.

**February 14**

A Valentine Social was held at the Sigmund Samuel Canadiana Gallery. Organized by the Members’ Committee and highlighting Valentine customs of the past, the evening was attended by 185 people. Tickets were \$7.50.

**February 20 and 27**

The Toronto Dance Theatre, Canada’s foremost modern dance company, presented two free programmes in the Armour Court attended on each occasion by over 500 people.

**February 21**

Three buses travelled to the Detroit Institute of Arts to view the exhibition “Akhenaten and Nefertiti: Art from the Age of the Sun King”. \$22.50 per person.

**February 27**

The Members’ Committee held another tour and coffee party for recent Museum Members.

**March 11**

The eagerly awaited new Dinosaur Gallery was opened by Dr. J. Gordon Parr, Deputy Minister, Ministry of Colleges and Universities, before a crowd of 1,500.

**March 18**

The Fashion Group held a reception for 70 of their members to view gifts made to the ROM Textile Department in memory of Gwen Cowley.

**March 19**

The 60th anniversary of the opening of the Museum building was marked by a reception for 100 invited guests. Dr. Romas Vastokas, representing the Archaeological and Historic Sites Board of Ontario, unveiled a plaque, later installed in the garden, to the memory of Charles Trick Currelly, first Director of the Royal Ontario Museum of Archaeology. Guests later viewed an exhibition of Museum Memorabilia honouring the first Board of Trustees and Sir Edmund Walker, its first Chairman.

**April 8**

The exhibition of “Indian Miniature Paintings of the Mughal and Deccani Schools” was opened by Dr. Theodore A. Heinrich of York University with 300 members in attendance.

**April 17**

In recognition of their valuable service the women of the Members’ Committee and their husbands were entertained at a buffet dinner in the Dinosaur Den by the ROM Board of Trustees. 200 guests attended.

**May 24, 25**

Again this year the Members’ Committee organized a most successful ROMart, the outdoor show and sale of student artwork. Music on the Planetarium Plaza was presented with the cooperation of the Music Performance Trust Fund of the Toronto Musicians Association.

**May 28**

The Members’ Committee’s annual meeting and luncheon were held at the Sigmund Samuel Canadiana Building. Mr. Maxwell Henderson, Director (Administration), addressed the group of 100 people.

**June 1**

A bus tour to the Niagara Escarpment was organized by the Members’ Committee and led by Dr. Walter Tovell, Director. Tickets were \$12.00 and a full busload of 49 people participated.

**June 3**

The Greek and Roman Department hosted a reception for 80 members of the Classical Association of Canada.



**June 3**

The Honourable Jean Chrétien, Minister of Indian Affairs and Northern Development, officiated at the opening of the exhibition "Canadian Indian Art '74" which was attended by 1,200 ROM members and representatives of the World Craft Council. Singer Alanis Obomsawin performed during the ceremony.

**June 6**

The Art Gallery of Ontario held its annual meeting in ROM Theatre at 4 p.m.

**June 10**

A reception was held in the garden for 80 members of the Museums, Arts, and Humanities Division of the Special Libraries Association.

**June 13**

The Picture Division of the Special Libraries Association met for lunch and a tour of the Museum.

**June 13**

1,000 delegates to the World Craft Council meetings being held at York University came to view the exhibition "Canadian Indian Art '74" and the special textile show "Made in Canada". Mrs. Vanderbilt Webb, Founder and Chairman of the Board of the American Crafts Council, was honoured in a ceremony at which the Jimmy Sky Dancers performed traditional Indian dances.

**June 19**

A final coffee party was held for recent new members, organized by the Members' Committee.

**June 24**

Forty members of the English-Speaking Union held a reception and dinner in the restaurant.

**June 27**

University of Toronto Caretakers held a dinner in the Dinosaur Den for retiring members.



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July 1973—June 1974

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